## **WEST Search History**

DATE: Friday, November L., 2001

Set Name side by side	Query	Hit Co	<u>ount</u>	Set Name result set
DB= USPT,PGP.	B,JPAB,EPAB,DWP1; PLUR YE	S; OP ADJ		
1.14	L2 and L12		2	L14
L13	L1 and L12		0	L13
L12	GGGACTTTCC		64	L12
L11	1.2 and 1.9		184	Lll
L10	L1 and L9		101	L10
L9	binding sites	37	7632	L9
L8	L6 and L2		0	L8
L7	L6 and L1		1	1.7
L6	L3 and L5		64	L6
1.5	dendritic cell		8007	L5
1.4	ribozym\$3	8	3755	1.4
L3	tolerogen\$3		395	L3
L2	nf kappa b		424	L2
L1	nuclear factor kappa b		211	L1

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(FILE 'HOME' ENTERED AT 11:34:48 ON 21 NOV 1002) FIRE 'BIOSIS, MEDITUE, 'ARION, EMPASE' EMPESED AT 11:34:50 ON 21 NOV 2000 25547 NUCLEAR FACTOR KAPPA B L1L2 41469 NF KAFPA B 4421 TOLEROGENI L315153 RIBOZYMY L4183175 OLIGONUCLECTION  $L_{i}^{t}$ 77082 ANTIGENET L6621 11 Att 1 ( 1 17 Att 1 ) L 1.5 1.4 1,16 L19 15 DUP REM 120 (6 DUFLICATES REMOVED) FILE 'BIOSIS, MEDLINE, CAPLUS, EMBASE' ENTERED AT 11:48:18 ON 21 NOV 21 2 7 L17 AND L3 AND L1
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                                                                      ACCESSION NUMBER:
                                                                        3-10 drive empression of type 1 IFN genes in human
  TITLE:
                                                                         dendritic cells inferted with
                                                                         Mycobacterium tuberculosis
  AUTHOR(S):
                                                                        Remoli, Maria Elena; Giacomini, Elena; Lutfalla,
                                                                         Georges; Dondi, Elisabetta; Orefici, Graziella;
                                                                         Battistini, Angela; Uze, Gilles; Pellegrini, Sandra;
                                                                         Coccia, Eliana M.
 CORPORATE SOURCE:
                                                                        Laboratories of Immunology, Istitute Superi re-di
                                                                       Canita, Esme, Holdi, Italy
 SOURCE:
                                                                        FUBLISHER:
                                                                        Aberlan Assesiation of Immunologists
 DOCUMENT TYPE:
 LANGUAGE:
 AP Type I IFM remarks whiteen no espects of the immune response, inducing a
              cell-mediated includity. We have resently shown that the infection of dendritic cells 17 with Myo bacterium tuberculosis (Mtb) includes IFN-.a.pha.. In this work we have monitored a rapid
               industion of IFN-.peta. followed by the delayed prodn. of the IFN-.alpha.1
               and/or -.alpha.13 subtypes. The Mtb infection rapidly activates the
               NF-. Rappa.B complex and stimulates the phosphorylation of IFN regulatory
               factor (IRF)-3, events known to induce IFM-.beta. expression in viral
               injection. In turn, the autocrine product of IFN-.beta. induces the
              IFN-stimulated genes that contain binding sites for
               activated STATs in their promoters. Among the IFN-stimulated genes
              induced in DC through STAT activation are IRF-1 and IRF-7. The expression
               of IEF-1 appears to be dependent on the sequential activation of
              NF-.kappa.B and STAT-1. Once expressed, IRF-1 may further stimulate the
              transcription of IFM-.heta.. Induction of IRF-7 is also regulated at the
              transcriptional level through the binding of phosphorylated FTAT-1 and STAT-2, forming the FEE-stimulated seasons and term oppless. In turn, the
              IBF-1 and IBF-1 extractly and appears to be required for the delayed industion of the FMT. Alpha. I become a Althaugh correlative, compressing a transport of extreme to a transport of me. . events in Mtb-infested D2. Upon Infection, that it is easy expressed NF-, kappa. B and IRF-3 are a T.-Velted and a sector of the transport of the tapid IFN-, beta, expression. In
               time, IFN-meta.-mained IRF-1 and IRF-7 may cooperate toward induction of
               IFM-.alpha.1/19 1: intention persists and these factors are activated.
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L34 ANGWER & DE 6 CARLOU CURRENT Z CA AGS
ACCESSION NUMBER: DILLEGET, CARLOW
DOCUMENT NUMBER:
                                                                       136:356018
TITLE:
                                                                       The use of taleragenic dendritic
                                                                      cells for enhancing tolerogenicity in a host
                                                                       and motheds for making the same
                                                                      Pobbins, Paul D., Io, Lina, Giann ukakis, Nick
University of Fittish a direct tile Obrahwearth Dyston of
History Franktion, UPA
objects on the contraction of the Contract of 
INVENTOR(S):
PATENT ASSIGNEE(S):
                                                                       ETCHELLAND AND AND AND AND A
SAURCE:
LAW (CAS):
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PATENT INFORMATION:
             FAREST S. Fin. Sair
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              W. L. C. Frank A. A. C. 111 F. W. L. C. Frank A. C. C. 111 F. W. L. C. Frank A. C. C. Frank A. Frank A
                                                                                                                      - X - 21 (=121 66.1 ), 1 1 4/5
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W: AE, AG, AL, AM, AT, AT, AD, BA, BB, BB, BB, BY, BC, CA, CE, CM, US 2001-844915 20010427 US 2000-200479P P 20000428 FRIORITY AFFIR. INFO.: The present invention relates to a tolerogenic mammalian dendritic  ${\tt cells}$  (bCs) and methods for the prodm. of the tolerogenic DCs. In addn., the present invention provides a method for enhancing tolerogenicity in a host comprising administering the tolerogenic mammalian DCs of the present invention to the host. The tolerogenic DCs of the present invention comprise an oligodeoxyribonuclectice (ODN) which has one or more NF-.kappa.B binding sites. The tolerogenic DCs of the present invention may further comprise a viral vector, and preferably an adenoviral vector, which does not affect the tolerogenicity of the tolerogenic ICs when present therein. Enhanced telerogenicity in a lost is useful for prolonging foreign graft survival and for treating inflammatory related diseases, such as autoimmune diseases. L34 ANSWER 3 OF 7 PARTITION OFFICE BUT LAND ACCESS IN NUMBER: DOCUMENT NUMBER: · :41416 TITLE: or languages and added allograft survival using dendritic cells 'reated with NF-.kappa.B decoy oligodeoxyribonucleotides AUTHOR :: Giannoukakis, Nick; Bonham, C. Andrew; Qian, Shiquang; Thou, Thongyou; Peng, Lansha; Harnaha, Jo; Li, Wei; Thomson, Angus W.; Fung, John J.; Robbins, Paul D.; Iu, Lina CORPORATE SOURCE: Department of Molecular Genetics and Biochemistry, University of Pittsburgh, Fittsburgh, PA, 15261, USA SOURCE: Molecular Therapy (2000), 1(5, Ft. 1-, 430-487 CODEN: MICHOK; ISSN: 1525-5016 PUBLISHER: Aradomic Fresc DOCUMENT TYPE: Trurnal JAGE: English

Dendritic cells I assizally promote immine LANGUAGE: AR responses but can be manipulated by Industration-specific hyperrop moves to a first . The expectation is restimulatory mats. (CD4C, CD4C, The contract of the contract o with NB-Large, were clear transparent bottoned necessary by the transparent transparent transparent transparent by the properties of the second contract of the to the numbers. In this report, we demonstrate that double-stranded cliptderwyrik name tides forty. binding sites for Weskappa. However the same of the lend by incorporated by bone main we write a literal specifically inhibit NF-.kappa.P-dependent transcription of a reporter whee. Moreover, exposure of DC to the clogendal time decrys inhibited rippolysarduride (LES)-induced nitrig owide produces with NF-.kappa.F-(IN selectionly approach the call-surface expression of best indictoral try matter by approach the call-surface expression of postinglatory male, with an interpretable matter. MHC class I or class II empression. Furtherness, MH-Reppele office induced allegened in respectifying respondences in the leave to a security of a continuous formation of the last of the security of the last of

significant prolongation of allograft survival in the absence of immunosuppression. Specific interference with NF-.kappa.P and other transcriptional pathways involved in immune stimulation in 10 using 000 decoy approaches could be one means to promote tolerance industion in organ transplantation. (c) 2000 Academic Press. THERE ARE 24 CITED REFERENCES AVAILABLE FOR THIS 2 1 REFERENCE COUNT: RENGEL ALL SITATIONS AVAIDABLE IN THE RE FURNAT 134 ALCUES 4 BY TO IT OF BURGER BY A ACCUMENT ACCESS OF WITHER POCHMENT IN TABLE : dendritic cell maturation through TITLE: the inhibition or nuclear factor -. kappa.B activation in hemopoietic rrowenitor cells yama, Isunemiro; Ran, Sophia; Ishida, Tadao; Nadaf, AUTHOR ::: Sorena; Kerr, Lawrence; Carbone, David P.; Subsiliavial, Dmitry I. The Vanderbilt Cancer Center and Departments of CORPORATE SOURCE: Medicine and Microbiology and immunology, Vanderbilt University School of Medicine, Nashville, TN, 37232, Journal of Immunology (1998), 160(3), 1224-1232 SOURCE: CODEN: JOIMA3; ISSN: 0022-1767 American Association of Immunclogists PUBLISHER: Journal DOCUMENT TYPE: Emplies LANGUAGF: AB - Vasorgiar end the list of with fact of TERM, professibly subject all tumor cells, afters the artility of her postdopen ments receils (BEC) to differentiate out of most had dendritic cells (IV) during the early tracks in their mathematic n. In this study we demonstrate specific blocking to the end of the end of the placenta specific for the Flt-1 placenta specific for the Flt-1 placenta into hold in the first, a lighted report stary specific for the first start place. The hold is binding sites for VEGF decreased diring to button at hold with decreased levels of mRNA for First. WEGF significantly inhibited nuclear factors.

kappa.B TNF-. happa.h -dependent activation of reporter gene transcription juring the first 24 h in culture. The presence of VEGF significantly decreased the specific DNA binding of NF-.kappa.B as early as 30 min after induction with TNF-Lalpha. This was tollowed on days to 10 by decreases in the mRNA for RelP and orRel, two subunits of NF-.kappa.B. Blockade of NF-.kappa.B attivity in HPO at warly stages if differentiation with an adenovirus expressing a dominant likappa.b inhibitor of NF-.kappa.F reproduced the pattern of effects with VEGF. Thus, NF-.kappa.keplays an important of ledin naturation of HF % to DC, and VEGF activation of the Fit-1 recept of leaking to all ok the activation of NF-.kappa.B in this system. Fit skape of NF-.kappa.B activation in HPVs by themer we live a tartis may the refere be a restmanding by which there so a second also the arms to a case the arbitrary of the limited by terminal actions and the arbitrary of the limited by the case to a second of the arms to be a case to be case to be a \* 92 - 11 1 1 1 1 1 FORES L. DITTOR 1989 : K. A. 1989 - WHILE W. m (Alexandra) Desiration (Colored) Tempolis TIELL (more size may be 10 to ground emplear Consumation of DFE-wag albeing rimes 10 for ILEDA ATTHOR I :

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ene industry divide a secolar ICHLIST BE n souther in the fire The such is about a the expression of an IL-IL reseptor by fresh dendritic cells [15] and a locality mobility shift assay anal., they found that DC possess an IL-12 receptor with .beta.1 subunit (downstream box 1)-related differences from that on T cells. IL-12 signaling through this resentor involved members of the NF-.kappa.B but not STAT family. The unique properties in the IN-IN receptor on DC, characterized by a single class of binding sites with a Kd of about 305 rM, may underlie rather unique offects, such as IFW.gamma. - in becomdent augmentation of class II antigen expression and priming for LFB-induced prodn. of IL-12. THERE ARE 4- NITED REFERENCES AVAILABLE FOR THUS 4.9 REFERENCE COUNT: RECORD. ALL CITATI US ALALLABLE IN THE RE FIRMAT 134 ANIMER COS COMEDUS OFFER HT. ACCESS INT TOWARK: in the second occupation of interpolatin-1, paintranscript by CD40 TITLE: pratical via a mivatical ti nuclear factor-.kappa.B Yushimoro, Takayuki; Magase, Hisashi; Ishida, Takaomi; In que, Junichiro; Mariuchi, Hideo AUTHOR : epartment Allergology, Institute Medical Science, CORPORATE SITECE: Thiversity Tokyo, Tokyo, 108, Japan European Journal of Immunology (1997), 27(12), Bumphan 3461-3470 SOURCE: nonem: Edimar; ISSM: 0014-2980 Wiley-VCH Verlag SmbH PUBLISHER: DOCUMENT TYPE: Journal English LANGUAGE: Interleukin-12 is produced in response to infection with Pasteria or parasites or to barterial constituents such as liper types therides (IFS in monocytes/macrophages and dendritic cells, and also generated by the interaction between and trace I cells and and analyses of parameters of an electrical analyses of parameters and electrical analysis and electrical and electrical analysis and electrical analysis. in monocytes/madrophages and dendritic cells, and als form r DF -.eappare binding sites fine roe is estween. monor in the man, the many months and inity which assay revealed that the prential UF-Leaguage clinding sequence which is located around 120 bp Drytroam of the transcription initiation site in morine and human p40 genes formed an NF-.kappa.B complex with nuclear ext. from Daudi cells stimulated by CL4 (lightion) Moreover, transferrible of Daudi Hells with the polymd. NF-.kappa.k binding sequence ligated to a thymidine kinase/chloramphenic.l acetyltransterase (CWT, reporter plasmid steatly induced CAT activity, but transferring with the polymer, but always NF-.kappe.B binding sopons did not. These results support that the The Rappare binding of the former and not consider the solution of the MF-Rappare binding of the former and not be appropriate and for the transfer in the constraint of the former particles and the constraint of the former particles and the constraint of the constraint of the particles and the constraint of the particles and the constraint of the const

136 ANOWER I OF FOURHERING THE YELDED WILL AND 2002:712316 CAPLUS ACCESSION NUMBER: Marked prolongation of paralist allogratic survival by TITLE: dendritic cells genetically engineered with NF-.kappa. B člizeje kyribonu destija seo ya sna sjenovira, ve tora eng jing MLAG-14 Bunkan, J. Andrew, Bend, Lancha, Hand, Miscyan, Cher, AUTHOR :: may by Mana, Ilano, Ma, Minilin, Habitean, History which is a substitution of the second section of the second seco plan, Children ; and Child opartment of Core ny analic mas E. Charmi Surgerantation institute, University of Pittsburgh Surgeral Coren, University of Pittsburgh, Pittsburgh, CORPORALE S TE E: 1A, 19113, 78A Junnal of Immunology (2002), 169(6), 3382-3391 SOURCE: MODEN: GOIMA3; ISBN: 0022-1767 American Association of Immunologists FUBLISHER: Taurnal DOCUMENT TYPE: LANGUAGE: English AB Bone marrow-derived dendritic cells (MOs) can be genetically engineered using adenoviral (Ad) vectors to express immunosuppressive mols, that promote T cell unresponsiveness. The success of these DCs for therapy of allograft rejection has been limited in part by the potential of the adenovirus to promote DC maturation and the inherent ability of the DO to undergo maturation following in vito administration. DC maturation colurs via NF-.kappa. B-dependent mechanisms, which can be blocked by double-stranded "decoy" oligedermyrlben piestides (GIMs) menta. binding sites in NF-.kappa.B. Herelli, W diel tring the long of Leoft NF-.kappa.B style sur same of a long specific tillage in an illage if to senerate stably include on the second of a tring senerate the potent continuation blocking is the property of the control of the property of the protection and the control of the control allostime. It by allowy and promote apoptosis of activated T cells. Furthermore, application of Ad CTLA4-Ig ODN-treated donor DCs (C57BL10; B1 (H-Ab), herers transplant significantly prolongs MHC-mismatched (F-HHe); CAH\_H-As, was marrised heart allograft survival, with long-term (\*111 days) don respective graft survival in 40% of recipients. The memanism(somesplant) for D1 to be remistry, which may involve arrivation-induced approximation allografication Toolis, do not lead to skewing of intragrant in systemic responses. The D2 to be a fixed to see the process of the continuous for the continuous states of NF-. kappa.B antisense decoys in conjunction with rAd encoding a potent costimulation blocking agent offers promise for the bady of allograft rejection or autoimmune disease with minimization of systemic immunosuppression. THERE ARE FOUNDED REFERENCES ASSOCIABLE FOR THIS REFERENCE COUNT: PROBE. AND SUPATIONS AVAILABLE IN THE BE POSIGI mrm.g. granding the second of the first of IRM product in human dendritic cells ng malawika kabupatèn akabupatèn bib roll, Maria Elena; Gracchini, Elena; Eutralia, oran, Cons., Ellesetta, ordini, Graciella, construction, America, The , illustry is longring, Cambra;
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          cell-mediates inclinity. We have resently chiwn that the intertion of
         dendritic cells [1] with My transcript motable rules is [2010 indicated a rapid indication of the IFN-.alpha.]
          and nor - alpha. It surges. The Mtb Infection rapidly activates the NF-.kappa.B online and reimmulates the
          phosphorylation of IFN regulatory factor (IRF)-3, events known to induce
           IFM-.beta. Extremel n in viral infection. In turn, the autocrine prodn.
          of IFN-.beta. induces the IFN-stimulated genes that contain
          binding sites for activated STATs in their promoters.
          Among the IFN-stimulated genes induced in DC through STAT activation are
          IRF-1 and IRF-7. The expression of IRF-1 appears to be dependent on the
          sequential activation of NF-.kappa.B and
          STAT-1. Once expressed, TRE-1 may currier stammatic the transcription of
          IFN-.beta.. Indict. n of IRF-0 let also required at the transcriptions. Is sell through the claim of phiego rylated CIAT-1 and STAT-2, ferming the IRF-1 letters are selected the stimulated as a fact of the phiego. In turn, the IRF-1 and IRF-7
          empression appears to be required to the delayer impaction or the
          Isli-laigha. Miss and a. Although surplative, our results strongly support
          the existence of a carrytest miss. Attenta in Mtb-infected DC. Upon intention, common to bely expressed NF-.kappa.
          B and 199-3 are included and likely contribute to the rapid
          IBM-.keta. expected medical, IBM-.peta.-induced IRF-1 and IRF-7 may
          o sperate toward masses in of SFR-, alpha.1/13 if infection persists and
          there families at a mivated.
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L36 ANSWER 3 OF 8 CAPLUS COPYRIGHT 2002 ACS
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ACCESSION NUMBER:
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DOCUMENT NUMBER:
                                                   The use of tolerogenic dendritic
TITLE:
                                                    cells for enhancing toleragenisity in a host
                                                   and methods for making the same.
Robbins, Paul D.; Iu, Lina; Stann ukakis, Site
University of Elitek annotione Commonwealth System of
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INVENTOR(S):
PATENT ASSIGNEE (8):
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adin., the procent invention provides a method in remission to be regarded to be a sense of the present invention; to the host. The tolerate in the content of the present invention comprise an oligodeexyrilenucrecylide (CCN) which has one or more NF-.kappa.B binding sites. The toleragenic DCs of the present invention may further comprise a viral vector, and preferably an adenoviral vector, which are not affect the toler manipity of the toler senior lie when present therein. Encaped toler actions of the action of the action of the senior senior is senior. HIS ALL LEFT TO ACCESS IN TO EVER END DOCUMENT NUMBER: and the state of t 18 :41416 Frilangation of darbiad allograft survival using TITLE: dendritic cells created with NF-.kappa.B descy :limodeckyribonumlectides Glannoukakis, Mick; Bonham, C. Andrew; Qian, Shiguang; AUTHOR :: Zhou, Zhongyou; Feng, Lansha; Harnaha, Jo; Li, Wei; inomson, Angus W.; Fung, John J.; Robbins, Faul D.; Lu, Lina Department of Molecular Genetics and Blochemistry, CORPOLATE SOURCE: University of Pittsburgh, Firtsburgh, FA, 18261, UCA Molecular Thorapy (2000), 10, Pt. 11, 430-437 CODEN: MTOHOK; 1880: 1826-1016 SOURCE: Adidemic Iress PUBLISHER: DOCUMENT TYPE: Curna... LANGUA E: LANGUAR:

AB Dendritic cells if the assume the type of the temporal representation of the second representation representation of the second representation represent with NF-.kappa.B- set near trans mintim of their sense. The der mondairy has been assocd, with impaired NF -.kappa.B- erement transcription of costimulatory genus as well as NF-.kappa.B transionation to the nucleus. In this report, we demonstrate that double-stranded oligodeomyribonuslectides santą, binding sites for NF-.kappa.B NF-.kappa. B ODN) are efficiently incorporate by b no marrow-derived DC and specifically inhibit NF-.kappa.B-dependent transcription of a reporter gene. Mereover, employer in 10 to the oligonucleotide desoys inhibited liper lyseturature 118 -innover mitri-omide grodn., a marker of 12 maturation. The atmentation maturations DO progenitors with NF-.kappa.B | 111 Do progenitors with NF-.kappa.B | 111 | selectively suppressed the selectively suppressed the selections of modern in the ferlin relations of the selection of a collision of the selection of th A MARKET TERMINA REFERENCE COUNTY THERE ARE 14 TITED REFERENCES AVAILABLE FOR THIS PROPERTY AND STREET IN AVAILABLE IN THE PROPERTY.

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AB - Vascular enjoying laid mowth factors VENF , produced by almost all tumer
                           cells, affects the gilling of hemory letter properties while HEM addifferentiate into functional dendritic cells (1979)
                            during the early stages of their maturation. In this study we demonstrate
                           specific binding of VESF to HEC. This kinding was efficiently a mester by
                           placenta growth rank r (FIGE), a limit begin heavy specific til the but-1
                            reseptor. The man a binding sites and WESE a present
                           during DC materation in vitro assort, with decreased levels of mRUA for
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                            in HEC at early starks or differentiation with an adenovirus expressing a
                             deminant L. Happa. H. Enhibitor of NF-.kappa.B
                             reproduced the pattern or effects obsd. with VEGF. Thus, NF-.
                            kappa.B plays an important role in maturation of HPCs to
                             IC, and VEGF activation of the Flt-1 receptor is able to block the
                             activation of NF-.kappa.B in this system.
                            Flockade of NF-.kappa.B activation in HPCs
                           cy tumor-derived factors may therefore be a medianism by which tumor reliscan directly down-modulate the ability of the immune system to generate
                            effective antitumor immune responses.
L36 AMAWER 7 OF 8 CAPLUS COFFRIGHT ST. ACC
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                    The authors analyzed the expression of an IL-12 receptor by fresh
                             dendritic cells (DC) and a DC line. Using RT-FUR, RNAME
                            protection, and electrophoretic mobility shift assay date, they to me that DC possess an IL-12 recept r with theta. Lord unit is inverted by
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Tout-like receptors of DB ourse were like recognizing that tapable of recognizing spatishes. Each of recognizing LANGLAG:: (LPS) and TpS-ontaining oligonucleotides (CpG ODN). TLR2 and TLR4 are major is regions for Gram-positive and Gram-negative bacterial cell wall components, respectively. TLR9 is necessary for CpG signalling. LES or CpG CLM can aprivate immature dendritic cells (DC) and induce In naturation characterized by production of cytokines, up-regulation of in-stimulatiny molecules, and increased ability to activate T cells. H wever, little is known regarding the regulation of TLR dene expression in mouse DC. In this study, we investigated the regulation of TLR2, TLR4 and TLR9 gene expression by LPS in murine immature DC. TLR2, TLR4 and TLR9 mENA were up-regulated following LPS stimulation. The up-regulation of TLR9 expression coincided with significantly increased production of tumour necrosis factor-alpha induced by LFS plus CkG DDM. While inhibition of extracellular signal-related kinase and NF-kaccaRactivation suppressed the up-regulation of the expression of TLB., TLB4 and TLR9 mRNA, inhibition of year kines grevented the general at in the TLR2 and TLR4 mFNA expression but enhanced the general atom of 118 to expression. These results are not entered that TLE, TLE4 and TLE7 expression was a first outly reducated by TLO In reason in a trace of the Expression was a first outly reducated by TLO In reason Industries IC.

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NFkappa-B/Rel transcription factors (mainly :=Rel, RelH, and pil) have AΒ been implicated in the differentiation of monorwies to either FOS or macrophages, as well as in the maturation of Des from antigen-processing to antigen-presenting cells. Recent studies of the expression pattern of Rel proteins and their inhibitors (IRSP 48s, suggest that their regulation auring this differentiation pricess is transcriptional. It investigate differential gene expression between macrophages and Dis, we used remmercially available sense missiannays (SEArrayTM EIT), which included 4 of the MFharpa-Holes tambly senses of plot, plotplot, belf, and t-Pell and plothed that is not been accounted to the sense of the plothes. of MFRuppu-s Religious to a transfer to remember many phasest and 1 My, human adherent perigness. The state of the production of the theory of the term of the perigness of the period of and radio, assume with alpha-baF-dCTF, then hybridized to gene arrays containing specific gand probas, beta-addin and GAPDH or PUC18 oligonucleotides served as positive or negative controls, respectively. The expression of all 4 NFkappa-B/Rel family genes examined was significantly un-regulated in maturing DCs compared to macrophages. The strongest difference was observed for b-Rel. Sequential RT-FCR determinations of c-Rel, RelB, and plos mRNAs confirmed these observations. Stimulation of macrophages with LPS resulted in industion of the same genes, but the expression of c-Rel remained higher in DCs. Among the 32 NFkappa-B/Rel target genes, 11 were consistently up-regulated in mature DCs compared to macrophages. These genes were-lkappabalpha, NIK (serine/threonine protein kinase), INAM-1, P-selectin, INFRA, INFALES (tumor necrosis factor alpha-induced protein), IL-Lalpha, IL-IRI, II-IRI, IRAK (II-I receptor-associated kinase), and TADE (TRAE family moder-accordates II appels at local and the contract, only model (moncoytes chemical transfer and accordance and most and appels and appels and appels and appels as the contract of the contract and appels and appells and appels and appels and appels and appells and appels and appells and appells and appels and appells appells and appells appells and appells appells and appells and appells appells and appells appells appells and appells appells appells appells and appells appel were reconstruct to the transplantation experiments. Genes whose expression diameter that the transplantation is the included office that NFkappa-B/Rel family genes, especially office, are selectively induced during dendritic cell maturation. Moreover, this process is associated with expression of a unique subset of genes that are transcriptionally targeted by the contraction of a unique subset of genes that are transcriptionally targeted by the contraction of a unique subset of genes that are transcriptionally targeted by the contraction of the contraction by NFRappa-E/Rel factors.

119 ANOWER 3 OF 11 CARINS MORYRIGHT 1000 ACS ACCESSION NUMBER: 2000:849019 CARING DOCUMENT NUMBER: 137:183744

Potential role of phosphatilylinceltol 3 kinase, TITLE:

rather than DNA-dependent protein kinase, in Tp ?

DNA-induced immune activation

Ishii, Ken J.; Takechita, Fumihiko; Parcel, Ilsan; AUTHOR(S):

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L19 ANSWER 4 OF 11 CAPLUS COPYRIGHT 2002 ACS ACCESSION NUMBER: 2001:489249 CAPLUS

DOCUMENT NUMBER: 135:71280

TITLE: Activation and inhibition is the immune system

INVENTOR(S): Foxwell, Prian; Foundam, Marc

The Mathilea and Terence Fernedy and course of PATENT ASSIGNEE'S':

Rheumatology Trust, TK ETT int. Appl., I mag.

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activation of include response by the aministration of an activator or irribitor of NF-.kappa.B is disclosed. Examples of NF-.kappa.B inhibitors include 1. kappa. B. appa., 181, a pariso tide sequence encoding Long pade, alphat, and i-sense nuclei cari benording an MF-dappa.B so pendo, with as her by and inti-NF-Rappach antibodies. Examples of NE-.kappa.b increase institute NIK, MEKK, IKKS, TEREF2 and Rel P. Also disclosed are very notened disclosers and inhiritors of NF-.kappa.B, tor example adenoviral vectors.

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simultantly upond, and in maturing los compared to macrophages. The stringest difference was argin for corol. ETHOR detms, or corel, Rolb, and plob mRNAs confirmed these discreptions. Among the 32 NF-, kappa, B/Rolpathway genes, 14 were upregulated in mature 10s compared to macrophages. These genes were I.kappa, B.alpha., IRK-, beta., MIK, ICAM-1, F-selectin, E-selectin, TNF-, alpha., TNFR2, TNFAIF1, IL-1, alpha., IL-181, IL-181, IRAK, and TANK. By contrast, only mop-1 (mandages chem taxtic protein) was upregulated in macrophages on mpared to ICs. MF-, kappa, hip alway between upregulated in ICs compared to macrophages bere constitutively expressed in monocytes then selectively aware matter arms from the these dense in macrophages that are independent of IR-2 macrophages and macrophages are selectively expressed author arms are appeared to a linear phages. The authors of the selectively expressed author artificientiation of monocytes towards BCs.

Moreover, this arms exhibit expression is assuming both with activation of different LF-, eagpale set main transfer in pathways in ICs and macrophages and with observable of a property of percentage are and with excession to a unique conset or junco in ICs that are trunstriptions.cy tarmeted by MF-.cappa.F/Re. rattors. The results in matrix the all try of the MF-.kappa.E pathway to respond to distance latter of the fit by activating in a cell-specific manner unique si malinu pathways and subsets of MF-.kappa.B target genes.

REFERENCE COUNT:

33 THERE ARE 33 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

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ACCESSION NUMBER:

2000:904923 CAPLUS

DOCUMENT NUMBER:

134:161862

TITLE:

AUTHOR(S):

A Toll-like receptor recognizes basterial UNA Hommi, Hiroshi; Taketohi, Samu; Kawai, Taro; Kaisho, Tsuneyasu; Sato, Whinter ; San o, Hideko; Matsumete,

Makito; Hishing, Markinkl; Magner, Hermann; Indian,

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THA from harteria has stimulatory effects on mammalian immune colls, which beyond in the process of immethylates Opia Bloudeotides in the bagterial DMA. In worthast, mammalian IMA has a low frequency of "pJ dinuclectides, and these are mostly methylated; thereiore, mammalian INA does not have immuno-stimulatory artivity. Opd TNA induces a strong Tehelper-Helike inflammatory response. Accumulating evidence has revealed the thorapeutic potential of CpG DNA as adduvants for the dination strategies for manner, allergy and infectious diseases. Despite its promising office due, the mol. mechanism by which Cr 3 PMA artivates include relias repaired to the ac-Hore the authors show that collular response to to FINA laboration of the Toll-like receptor, like. Tile-bill contour Tile-bill contour to the solution of the authors are also become any response to Tile-like according to the solution of the solution of

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Santa Anton ACCESSI N NUMBER: r writing to the Fi dendritic cells to the country with name to be considered to the country of the c . . . . . . . . ATTHOS :: In ms m., Angus W.; Bung, John J.; Robbins, Paul D.; Tepartment of Milecular Menetics and Biochemistry, University of Fittsburgh, Fittsburgh, FA, 15261, USA Milecular Therapy (2000), 1(5, Pt. 1), 430-437 DDEN: MIORCK; ISSU: 1525-6016 CORPORATE SITTED: SOURCE: PUBLISHER: Anademin Fress DOCUMENT TYPE: Journal LANGUAGE: English Dendritic cells (DC) classically promote immune responses but can be manipulated to induce antigen-specific hyporesponsiveness in vitro. The expression of costinulatory mols. (CD4), CD80, CD80) at the DC cell surface correlates with their expanity to induce or suppress immune responses. Expression of these mois. Is assort. with NF-. Ruppa. B- kg andent transcription of their genes. LC triverspecificity has been associated with localized NF-, Kappa, E-dependent trirection of the color of the c to the numbers. In coloring it, we demind not that inable-stranded thigade Myrin number these tents, clinding slives for NF-.kappa.B MF-.kappa.B MF-.kappa.B it is a continual to the specific point of a reporter gove. Moreover, exposure of DO to the oligonucleotide decoys its pite a dipprocystomaride (dPSI-induced nitric oxide product, a marker of DO maturation. Treatment of kone marrow-derived DC progenitors with NF-.kappa.B DDN selectively suppressed the coll-surface expression of continuistory mole, without interfering with MEC class I or class II expression. Furthermore, NF-.kappa.B ONN DC induced allogeneic donor-specific hyporesponsiveness in mixed leukocyte cultures, and this was assocd. with inhibition of Thl-type cytokine prodm. Finally, infusion of NF-.kappa.B ODN-modified bone many w-derived D7 into allogened to recipients prior to heart transplantation resulted in similibant prolongation of allograft survival in the absence of immunistage salet. Specific interference with MF-.kappa.b and then transposed had pathways involved in immune scimulation in It since CMD because approximate to the ore means to promote tolerance in bottom in a ran transplant at I m. (1) 21 d Adademin Freds. PEPERT BOOKERS THERE I SEE TO MISEL RESERVICES ASALTARIES EN ENTESS RECENT AND COMPANY AND ADMINISTRATION OF FEMALES. 119 A Just to a company of the section of the state of the section oligonucleotides : nuclear factor .kappa.B : n regimes -ads vistor hyponesponsiveness. The L., Faymon F.L., Tratree T.L., Felletier S.J., Rudy T.W., Fract T.L., Cawyer F.W. Or. F. J. Cawyer, University of Virginia, HOU Fox 600000, Charles you of higher Transplant Cor., Charlettes Jille, VA AUTHOB: CORPORATE COMPARY  $\mathbb{R}(\mathbb{R}^n \times \mathbb{R}^n) = \mathbb{R}^n \mathbb{R}^n \times \mathbb{R}^n$ summers, in the literature of the state of t SOURCE: Bets: .1 DANNER OF HER DESCRIPTION OF THE THE RESERVE COUNTRY: DOCUMENT TYPE: FILE SE MEMO: thanal; Artiste

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SUMMARY LANGUA GET FROLLER

Background. INA containing the Cylimstif is associated with immunomodulation of the innate immune response. Freezyposure of macrophages to CpG DNA elicits a hyporesponsiveness to subsequent lipopolysatcharide (LFS) stimulation. We tested the hypothesis that this effect is due to decreased nuclear translegation of nuclear factor . kappa.B (NK-.kappa.B). Methods. Murine matrophage-like RAW 264.7 cells were incubated with 1.5 .ma.gamb dp = sontaining oligonucleotides (Cpd CMA), for the theory is a finite of the party restimulation with I amount on LPP for the principle. The configuration cotransfected with an NF-.kappa.k sensitive indice ase reporter mustrud and a contect is evaluated planets. Our assume the province of extracts were assessed to the MB-1 can substitute the content of the content o supersolute and if, it is the large and, it supposes and proof in -1, suppose by Western a is a constant of the constant, and it is presented by Alleave, and attribute of the second relationship assay. Results. NF-, ways all top of the laminity will be obtained as demonstrated by Turiterise and him yearsy in the prolonged CpG ODN pretreatment groups. Unlike endutixin the rance, Cp F CTN preexposure increased cytoplasmic phospho-I.kappa.B.aliha. and did not abrogate mitogen-activated protein kinase and lulty. Third sions, in macrophages, exposure to CpG DNA in meases expression of the inhibitory p50 NF-.kappa.B homodimer and decreases NF-.kappa.B activity without inhibition of I.kappa.B kinases. Mirogen-activated protein kinase activity remains intact. Understanding these interactions between different tell receptor ligands may provide insight into novel therapeutic modalities.

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Life in the line of a treated from the dendritic cells

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gene expression in a law 12. In this study, we investigated the regulation

of TLR

TLR TIME of TLR TIME of the second from the LTR is muring impature DC TLR2 of TLRC, TLR4 and TLRA dene expression by LPA in murine immature DC. TLR2, TLR4 and TLRA made were up-redulated following LPS stimulation. The ur-regulation of Third expression coincided with significantly increased production of tunour necrosis factor-alpha induced by LPS plus CpG ODN. While inhibition of extrabellular signal-related kinase and NF-kappaB activation suppressed the up-regulation of the expression of TLRA, TLR4 and TLE9 mRNA, inhibition of p38 kinase prevented the up-regulation of TLR2 and TLR4 mRNA expression but enhanced the up-regulation of TLR9 expression. These results demonstrate: that TLF., TLF4 and TLF8 wile expression was differently regulated by LF3 in rouse include I.S. Up-regulation of TLRF, TLR4 and TLR9 expression by LHS might probable the operall responses of TC to distribute and being to explain the sympley between 11th and the situate shall as directly the linearty not be two Rine or that have 111 ANDER CONTACTOR naka walio alia walio 1111 ilianza ar DOCUMENT NUMBER: improved in infinite that NE-captab pathway genes in dendritic cells of the containing and the containing. TITLE: Basharnskih i, Albahrana o, Bosh b É AUTHOR: Model the Hematic Try, Thirtersity of Texas Health Science Conter at Jan Antonio, Jan Antonio, Texas Texas 79.09-3000, TSA. Boll 189-140 (MINISTER GOVERNAL OF CHULLAS FISCHEMISTER, 1800) Aug 1-01-43 (A) CORPURATE SIME SE CONTRACT NUMBER: SCURCE: 2. - 1 - . Junial Harris New IVIII (19 - 11). PUB. COUNTRY: Towns, Artimus, Towns Arithe DOCUMENT TYPE: LANGTA SE: FILE SE MANT: ENTRY M NUE: ENTRY DATE:

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. In the solution of a constraint was in an implicated in the MF-mapped Fe L transfer Lyt in factors have been implicated in the ÆΒ differentiation is nonytes to either dendritic cells (Das) or macrophages, as well as in the maturation of DCs from antigen-processing to antigen-presenting cells. Recent studies of the expression pattern of Rel proteins and their inhibitors (IkagpaBs) suggest that their regulation during this differentiation process is transcriptional. To investigate differential gene expression between transcriptional. To investigate differential gene expression between macrophages and DCs, we used commercially available gene fitter arrays (GEArray KIT), which included for all the DE-supple Feb. family a red sployplib, plotploy. Felb, and the local arrays are the arrays eliter in the ME-supple Soloma, transmitting a research in a generality in a contract the ME-supple Soloma, transmitting a research in a generality in a contract the ME-supple Soloma, transmitting a research ICs, have a calculation perspectively in a gift of a given when the rest with XH or GMH-SEF in 18-4 respectively in a gift of a given with the like include experiments, macrophages) were treated with the proposed for the like iteration last 48 h of culture to include material in Soloma species with algebra 610 PH-GCTE, then hybridized to gene arrays containing solomic research to the property of the second research in and GAPDH or PUC18 containing specially send probast beta-actin and GAPDH or PUC18 oligonucleotides serves as positive or negative controls, respectively. The expression fall four NF-kappaB/Rel family genes eximines wis significantly upregulated in maturing DCs compared to macrophages. The strongest difference was observed for c-rel. RT-PCR determinations of s-rel, RelB, and pl05 mRNAs confirmed these observations. Among the 32 NF-kappaB/Rel pathway genes, 14 were upregulated in mature DCs compared to macrophages. These genes were IkappaBalpha, IKK-beta, NIK, 1CAM-1, P-selectin, E-selectin, TNF-slpha, TNFR2, TNFAIP3, IL-1alpha, IL-1R1, IL-1R2, IRAK, and TANK. By contrast, only mcp-1 (monocyte chemotactic protein 1) was upregulated in matrophages compared to DCs. NF-kappaP pathway genes upregulated in DCs compared to macrophages were constitutively expressed in Acromytos then selectively downregulated during macrophage but not Ind differentiation. HE did not induce expression of most of there were in managhases but LFS did induce upostal at a notice of the start of the start in the phases but LFS did induce upostal at a notice of the start in the specific terms of the start in the ownression in an onlar factor with artifaction of different MF-kappaP simul transfers of partways in 10s and matrograges and with expression of s unique subset of sensor in 12 to that are transpriptionally targeted by Markappas sol rand no. The results illustrate the ability of the NF-kappas pathway to respect to differentiation stimuliby activating in a cell-specific manner unlique signalling pathways and subsets of MF-kappaB tarjet jenes. Copyright of 1 Wolley-Libra, Inc. MEDIANE L21 ANSWER 3 OF 15 2000419645 MILITARY. ACCESSION NUMBER: 20394530 PubMed II: 1 49×964 DOCUMENT NUMBER: Prolongation of the Harvall graft a motivation of TITLE:

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Dendritic cells

1. The control of t to induce or suggests immune responses. Empression of these molecules is ascopiated with IN-kH-dependent transcription of their genes. DC to erogenicity has been associated with impaired MF-kB-dependent transcription of costimulatory genes as well as NF-kB translocation to the nucleus. In this report, we demonstrate that double-stranded bligodeoxyribonucleotides containing binding sites for NF-kB (NF-kB ODN) are efficiently incorporated by bone marrow-derived DC and specifically inhibit NF-kB-dependent transcription of a reporter gene. Moreover, exposure of DC to the oligonucleotide decoys inhibited lipopolysaccharide (LPS)-induced nitric omide production, a marker of DT maturation. Treatment of bone marrow-derived LC progenitors with NF-RP of M selectively suppressed the cell-surface empression of continulatory molecules without interfering with MHC class 1 or class 11 empression. Furthermore, NF-kB (IIII) indiced all denells and eage while farger as a particular of the contract of the con Mind inhabition of history with his grant his Finally, infusion of NY-kB 7000-ratios as no mars us a live of the callogeneit resigients prior to feart transplant of a resolver in significant prolongation of allograft supplyability of a series of the analysis evil and Specific interference with NH-sir and that there might had pathways involved in immune stimulation in INTO using OTE decree upper a thes invalide one means to promote tolerance in a time in them to any cantable no

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ACCESSION NUMBER: 2002139134 MEDLINE

21864248 PubMed ID: 11773067 DOCUMENT NUMBER:

TITLE: Molecular mechanisms involved in CD43-mediated apoptosis of

TF-1 celis. Roles of transcription Dawx expression, and

adhesion molecules.

AUTHOF: Cormak Lukas; Simova Sarka; Fintres Alexandres; Bereisl

Vaslav; Andera Ladislav

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AВ simplis in I means and dendritic cells. Immunicipe i simas in I wells and dendritic cells. Immarilies I anta-CI43 monacheral antibacy was MEMI- that been previously shown to induce apoptosis of hematopoletic probabilities. In this study we show that it also tringers apoptosis of the myellings manifold being were investigated with the kinetics of the MEMI-I who may appropriate were invariably show, with the first approximationally along approximate when his first approximations, in a tage, and the first paper and were approximately and the immobilized antarray; In a tage, and the mediate has put on the way annals are constructed as a true was a second or an accordance of the management. partry regimes and a summarilized anti-CVE (TOAM-3) or anti-CD99 mAb. The NEW- retriebed by problem in Their policy was also inhibited by the overexpression in an appropriate regulator, Daxw. CD43-mediated aportosis was preceded by the repression of the INA binding activity of the transcription is for a Ai-1. IIWA array someoning revealed that the expression of several senes enhading approxist-regulating proteins, including 14-3-3 proteins and the granulcoyte massophage colony-stimulating factor (GM-GSF) receptor beta-schunit, was represent in TF-1 cells bound to immobilized MMM-59. The down-regulation of 14-3-3 proteins and GM-CSF receptor beta was accompanied by translocation of the proapoptotic protein Bad to the mitoth ndria. These recults surgest that engagement of CD43 may, presumably through the repressing transcription, initiate a Bad-dependent apoptotic pathway.

L21 ANGWAR 5 OF 15 THIS INF ACCRECATION CONTRACTOR PACIFICAL PARTY. \*\*\*\*\*\*\* TITLE: e contre encluste a monatora na continuación de wellebeina via and the notice of the registran culture by Toll-like receptor ATTHOR: i mmom Geoffrey B; Brunn Gregory J; Kodaira Yuzo; Platt Jeilier L CORPORATE SOURCE: Degartment of Immunology, Mayo Clinic, 2-66 Medical Silenies Building, Rochester, MN 55905, USA. COMTRATI NUMBER: El 4.-1' MELEI HT. 52097 TMHLBIT JOURNAL OF IMMUNOLOGY, (2002 May 15) 168 (10) 5233-9. Journal Bode: 29981178. ISBN: 0022-1767. SOURCE: PUB. COUNTRY: United States DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE) LANGUAGE: English FILE SEGMENT: Abridged Index Medicus Journals; Priority Journals ENTRY MONTH: Entered OTM: 21 21909 ENTRY DATE: En esma como de la MEDIA de la Actual de la

First greature of the convenience in a continuous configurate and invertegrates of heraffer transfer to the convenience of the ingune recept in a section attended nation in a source equipment on specialized couls with at dendritic cells, but whatnes these receptors may not disaments to no memous molecules is not known. We tested the like that live-like resept in a dendritic cells might be a mile polywarcharide tragments of heparan sulfate ported plycam. Dendritic cells were round to mature in response to hope an outliste as measured by distimulatory protein. empression, rough to my, and T tympho my - Stimulation, but this maturation was absent when I li-like receptor 4 was mutated or inhibited. These findings suggest that I:ll-like receptors in vertebrates may monitor tissue well-being by recombining fragments of endogenous parameterules.

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CD86) and numerous cytokines and chemokines (see kine receptors [1.e., Flt-3L, G-CSF, TL-Talpha and -Theta, TL-E, TL-12, CCL-2, -2, -4, -1, -1, and -22, MIP-2, and CCR7) and were significantly better at indicting effector T cell responses in vitro. Furthermore, mine variously dwitness tumor peptide-pulse; mature C % detter a driver that the variousless with a weakly immunicated time of the significant and the flat significant and the variousless with less mature for the converse of fractions of the variousless (1.e. Deverons less, interper site - mineral of the significant and the variousless (1.e. Deverons less, interper site - mineral of the significant and the site of the significant and the significant and the site of the significant and the site of the site o

121 ANOWER ROBERT CAROLE CHERRIES INC. ANS ACCESSIBL NUMBER: 20 (L:549819 CAPEUS POCUMENT NUMBER: 130:153755 TITLE: Fatantial role of phosphatidylinositor 3 kinase, rather than DNA-dependent protein kinase, in CpG DMA-induced immune activation Ishii, Ken J.; Takeshita, Fumihiko; Gursel, Ihsan; AUTHOR(S): Gursel, Mayda; Conover, Jacqueline; Mussenzweig, Andre; Klinman, Dennis M. Section of Retroviral Immunology, Pivision of Viral CORPORATE SOURCE: Products, Center for Biologics Evaluation and Research, Food and Drug Administration, National Institutes of Health, Fethesda, MD, 20692, USA Journal of Experimental Medicine (2001), 19403), SOURCE: . vi⊶-1274 TORNS TERRAPY COUNTY ( ) +1 LANGUADE: . Underthy, where  $\gamma$  is the region of all there is a strong innate income response . There is evidence that LNA-dependent protein kinase (INVA-FE) modilated it is signalling. Specifically, wortmannin (an inhibitor of phosphatidylinesits. 3 kinase (F13)-kinases including DNA-PK) interferes with PrG-dependent cell activation, and DNA-PK knockout (KO) mine fail to respond to OpG stimulation. Current studies establish that worthmannin autually inhibits the uptake and colocalization of CpG DNA with toll-like receptor [TLR\*-9 in endoty is vesibles, thereby preventing CpG-induced activation of the NF-.kappa.B signaling cascade. We find that PMA-PW is not involved in this process, since three strains of DNA-PK KO mine responded normally to 1900 DNA. These results support a model in which Std signating is mediated through TLR-9 but not DNA-iK, and suggest that worthannin-sentitive medies of it the P13-kinase family play a mit. File in an utilize p fill to TIE-t.

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                 income response by the administration of an activator or inhibitor of
                 NF-.kappa.B is disclosed. Examples of
                 NF-.kappa.B inhibitors include
                 I.kappa.B.alpha., PSI, a nucleotide sequence encoding I.kappa.B.alpha.,
                 anti-sense nucleic acid encoding an NF-.kappa.
                 B sequence, such as Rel B, and anti-NF-.kappa.
                 B antibodies. Examples of NF-.kappa.B
                 inducers include NIK, MEKK, IKK2, TERRES and Rel B. Aisc disclosed are
                 vectors encoding injurers and inhibitors of NF-.kappa.
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FOT Int. Appl., 148 pp.
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grate instance interested in a House contraction, a contract materials NF-.kappa.B. North Anna Anna Anna Anna Immeri 121 ANDWER : ACCESSI II IUTISES: DOCUMENT NUMBER: TITLE: Antls noe oligonucleotide inhibition of RANK - Expression INVENTOR . : chaser, Bredda B.; Swsert, Dex M. HATENT ADDITIONS OF : This Francis with task,  $\operatorname{Dr}_{\operatorname{\mathsf{A}},\operatorname{\mathsf{A}}}$ SOURCE: ···· , i !! . TOPEN: TENNAM DOCUMENT TYPE: LANGUAGE: English FAMILY ACC. NUM. COUNT: 1 PATENT INFORMATION: PATENT NO. KIND DATE APPICATION 100 DATE **--**----\_\_\_\_\_ US 1999-435296 A 19991105 PRIORITY APPLN. INFO.: WO 2000-US29818 W 20001030 Antisense oligonucleotides, compns., and methods are provided AB for inhibiting the expression of RANK Presentor activator of nuclear factor-kappa B), a receptor known to enhance T-cell growth and dendritic cell function. The compast comprise antibense compds., particularly antisense oligonucleotides, targetea t numbers asids en with a FAME. Think fire the option this abso oligonucleotides namina d'eneth wastnyn winas ana solis wy sap indikit tiko keesoo oo la BAMB BBMA ah uu tookoo tota isoo is mina takka ting a visit of the first of ALE superson in unable the siment of authorities TO FAME (AND COMMENT OF A COMME Action to the second PRIFERENCE OF THE TITLE: in filling that was in who expression during
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Biology DOCUMENT TYPE: T. anal LANGUAGE: Dendritic cells of a second description of the second description description of the second description of the second description of the second description desc AB. RNA revel further oligonucleotide mich arrays complementary to to a human dener on wed that .approval of the genes were expressed in DOs. A total of the pener of a were regulated during DO differentiation or maturation. If so of these denes were not previously assocd, with DCs und included general engaging secreted proteins as well as genes involved in me. I adn-sinn, simuling, and livid metab. Protein anal. of the same cell normilations was done using two-dimensional gel electrophoresis. A total of 900 distinct protein spots were included, and 4 of them exhibited quant, changes during DC differentially and maturation. Differentially expressed proteins were identified by mass spectrometry and found to represent proteins with Ca2+ binding, fatty acid binding, or shaperone activities as well as proteins involved in coll motility. In a idn., proteomic anal. provided an assessment of post-translational modifications. The chaperone protein, calledically, was round to amergo cleavage, yielding a novel form. The embined oligonucleotide microarcay and on to microspersames have unsured from a menes assend. with IP stitles in a turn and match at in a dispartition as an approximation of these probesses. REFERÈNCE COMMO: THE STAFF OF THE SEPERATE AVAILABLE FOR THIS SECTED. ALL CITATIONS AVAILABLE IN THE RE FORMAT 121 ANDWER 18 OF THE WALLES OF YELDING IN ACE Particker CAPIUS ACCESS! AL NUMBER: POCCEMENT HURBER: 131:6.1.6 A full-like receptor recognizes bacterial DNA. TITLE: [Erratum to document cited in CA134:161862] AUTHOR(2): Henni, Hiroaki; Takoushi, Osamu; Kawi, Taro; Kaisho, Tsuneyasu; Sato, Shintaro; Sanfo, Hideki; Matsumoto, Makoto; Hoshino, Katsuaki; Wagner, Hermann; Takeda, Klyoshi; Akira, Shinus CORPORATE SOURCE: Department of Host Lefense, Research institute for Microbial Diseases, Osaka University and the Research to Etclick national and Donath by, that, tel-2-11, ing at Mature (Managhi) no 1 , 4 total , 44. STERM: MATUREY NOTE: (1888-88) SOURCE: F"BLISH F: DUCTMENT OFFER ABOUTE CHARACTURES CONTRACTOR LOI AND THE TEST OF THE PRESENCE AND ACCESSING INTERESTS. THE TABLE OF THE PARTITION OF THE Á Til-like re egiter ner minez kanterial DNA Herri, Hiroaki; Takenchi, Osamu; Kawai, Taro, Kaisho, TITLE: AUTHOR (J.: Toronty was, Car , Chin Gard, Cardo, Erdeni, Matsumoto, lak t.; H. shin , Katsuaki; Walmer, Hermann; Takeda, Fly shi; Akira, Jalan legarthent of Hout Lefence, Federal in Institute in a Middle Clise as o, Class University and Open Federal in CORPORATE STURME: tor Extinct Charles on Second Technology, Julya, Cosco, Nature Indian , 1 - - 1 - , 1 - 4 SOURCE:

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Nature Edilseler Group Turnai PUBLISHER: ECCOMENT TYPE: LANGUANE: Fi. 1. . si. AP - 50% trom becomes a marketingly or more or or manualish impures which depend on the presence of unmethylated Op9 Hinudestides in the Fasterial DNA. In contrast, mammalian DNA has a low frequency of CpG dinuclectides, and these are mostly methylated; therefore, mammalian ENA does not have immuno-stimulatory activity. OpS DNA induces a str no 1-helper-1-like inflammatory response. Accumulating evidence has revealed the therapeutic potential of CpG DNA as adduvants for varification strateries for cancer, allergy and intertious diseases. Texpite italpromiting tilm, we, the med.  $\tilde{m}e^{2}hanism by which <math>2\tilde{p}+1MA$  and  $\tilde{p}'d+\tilde{p}'$  include solub sersing unbleak. Here the authors on a that will can easy use to  $\tilde{p}+1MA$  by rediated by a To be been expressed that the place of the residual fields and the second and the second and the second and response to provide the control of t The without any electron of recommendation of the distribution of the Theorem type-I response was also abolished in TIPM= /- ml v. Thus, writebrate immune systems appear to have evolved a specific Telephone receptor that distinguishes bacterial DNA from self-NA. REFERENCE COUNT: THERE ARE 31 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT L21 ANSWER 15 OF 15 EMBASE COPYRIGHT 2002 ELSEVIER SCI. B.V. 2002330736 EMBASE ACCESSION NUMBER: TITLE: Preemposure of murine macrophages to CpG- intaining oligonucleotides results in nuclear factor .kappa.kp50 homodimer-associate; hyporesponsiveness. AUTHOR: Tin L., Raymond C.P., Crab<sup>li</sup>res T.D., Belletier S.J., Rudy C.K.; Pruett T.L.; Jawyer R.G. Tr. F.G. Cawyer, University of Windining, HC the wife C A, Charles C. Windining Communication of the State of the William Communication of the State of the William Communication of the Willi CORPORATE NOURCE:  $\mathcal{L}_{\mathcal{L}_{\mathcal{A}}}^{(i)} := \mathcal{D}_{\mathcal{A}}^{(i)} \cap \mathcal{L}_{\mathcal{A}}^{(i)} = \mathcal{L}_{\mathcal{A}}^{(i)} \cap \mathcal{L}_{\mathcal{A}}^{(i)} = \mathcal{L}_{\mathcal{A}}^{(i)$ SCURCE: 11: . . . . <del>-</del>.. . . . COUNTRU: DOCUMENT TOTAL artur, Article The Total Control of the Control of - America Estiming and Fathelogical Anatomy LANGUAGE: SUMMARY LANGUAGE: English AB Background, LNA containing the CpG motifies associated with inmunemodulation of the innate immune response. Preexposure of macrophages to CpG DNA errorts a hypothespensiveness to subsequent lipopolysecularide (ABS) stimulation. We tested the hypothesis that this error is due to decreased nuclear translatation of hardwar factor league. PostF-league. For Methods. Murine magrophage-like RAW 204. Tells were included with 1.5 .mu.g./mL CpG-containing oligonucleotides (p. 105) to 1.5 to 2.5 hours followed by restimulation with taken, such that for a minutes, of reneurs followed by restinutation with them. Ind. This is not recommended. The cells were purposed them with an NF-.kappa.B sensitive indifferes the other construction and a control detailed placed. Cytoplasmon and the analysis of an advantage of a NF-.kappa.B and a control of a NF-.kappa.B.

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El medical Science Tower, Pittsburgh, PA, 15213:

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SOURCE: Transplantation (Baltimore), (January 15, 2002) Vol. 73,

No. 1 Supplement , pp. 019-822.

http://www.transplantjournal.com/. print.

ISSN: 0041-1337. General Review

LANGUAGE: English

DOCUMENT TYPE:

Dendritic cells (DC) constitute a numerical system of uniquely well-equipped antigen-presenting cells that initiate and regulate immune responses. Extensive recent studies have improved our understanding of DC development, differentiation, and various and function. DC exist as distinct subsets that differ in their dineage aftiliation, surface malecule expression, and blood of the various. These tractors seem to determine the T- log calling sometimes and type of T cell response-T begins to the tractor of the property of the property of the property of the central and peripheral accounts to the tractor of the property of the pro toleranse via verilus mechanisms, including induction of T-cell anergy, immune deviation, I regulatory cell activity, and promotion of activated T-sell apoptosis. A. though many of the details of the molecular basis of DC tolerogenicity have yet to be elucidated, emerging information suggests that destimulatory molecule deficiency, expression of death-indusing ligamus (in particular Fas (CD95) ligand), mitroenvirormental tattors (in particular antiinflammatory/immunosuppressive cytckines), and inhibition of gene transcription regulatory proteins (e.g., nuclear factor-kappaB) can impart tolerogenic potential to DC (2). Manipulation of DC by control of their maturation and differentiation, or genetic engineering of these cells to express immunosuppressive molecules, offers potential for therapy of allograft rejection and autoimmun- iisease. In this brief twerview, we cutline principles and methods for reneration of "tolerogenic" DC and out nomes that have been reported in experimental models. Wy are constraints function to relative out at a model.

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genetically engineered using adenoviral [Ad] vectors to express immunosuppressive molecules that promote Total unresponsiveness. The simes of these (Or for the pay of all ordain rejection has been limited in part by the potential of the adenovirus to promote 70 maturation and the inherent ability or the PC to undergo maturation following in vivo administration. DC maturation occurs via NF-kappaB-occentent mechanisms, which can be blocked by double-stranded "densy" eligndecmynibhnuslectides (ODNs) containing binding sites for NF-kappaB. Herein, we describe the combined use of MF-kappaB ODNs and rAd vertices encoding CTLA4-1; Add combined use of NF-kappaB ODNs and rAd vectors entiting CTLA4-1) Add CTLA4-I) to generate stably impature marine myerola DDs that decrete the potent costinulation blocking adent. These Add CTLA4-1:-transduced of DDS exhibit marketly and alread and stommar by a lofty and gram to appptesis of additions a loss of the market produced the DDs of Flory of Help and the market land of the products of the product of the market allegant survival, with long-term of mays on a respectible graft curvival in 40% of recipients. The meaning responsible for DC tolorogenicity, when may are to a cluster maked apoptosis of alloreactive T cells, do not lead to skewers in intradraft Theoreticals of alloreactive T cells, do not lead to skewers in confunction with rAd encoding a potent costimulation blocking agent offers promise for therapy of allograft rejection or blocking agent offers promise for therapy of allograft rejection or autoimmune disease with minimization of systemic immunosuppression.

L23 ANSWER 3 OF 5 CAPLUS COPYRIGHT 2002 ACS ACCESSION NUMBER: 2001:816872 CAPLUS 135:355016 DOCUMENT NUMBER:

TITLE: The use of tolerogenic dendritic cells for enhancing tolerogenicity

in a host and methods for making the same Robbins, Paul P.; bu, Lina; Glatha skakla, Hick University of Pittsburgh of the Commonwealth System of

INVENTOR(S):

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CORPORATE SOURCE:

York, NY, USA Human Immunology (2001), 62(10), 1065-1072

CODEN: HUIMDQ; ISSN: 0198-8859

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Elsevier Science Inc.

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suppressor cells were analyzed. This study now provides evidence that instature dendritic cells stimulated by T suppressor

ceals differentials into mature dendritic cells with a

distinct phase type. The identification of Ts induced pathways of

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development if her therapeutin strategies.

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137:41416 DOCUMENT NUMBER:

TITLE: Prolongation of cardiac allograft survival using

dendritic cells treated with

AUTHOR'S::

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trunsurign. In the reporter sense. Moreover, emposure of DC to the cluding testing serves inhibited dipopulysactharide (LPS)-induced nitric oxide pridmit, a marker of DC maturation. Treatment of bone marrow-derived DC progenitors with NF-.kappa.B oDN selectively suppressed the cell-surface empression of costimulatory mois, without interfering with MHC class I or class II empression. Furthermore, NF-.kappa.B oDN DC induced allogeneic denor-specific hyperesponsiveness in mixed leakeoute cultures, and this was associal with inhibition of ThI-type bytckine promisionally, infusion of NF-.kappa.B oDN-m diried hone marrow-derived by interference recipients prior to heart transplantation resulted in similificant prolongation of allowaft survival in the greenest immunosuppression. Operation interference with NF-.kappa.B and other transcriptional pathways involved in immune stimulation in D outing oDN depoy approaches to define the result of primate telerance induction in organ transplantation.

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Hannan C Amirew; Heng Lamsha; Liang Xiaoyan; Chen Zongyou; A THOR:

Wang Hanru; Ma Lin.in; Hackstein Holger; Robbins Paul D;

Thomson Angus W; Fung John J; Qian Shiduang; Lu Lina

CORPORATE SOURCE:

Department of Surgery and Thomas E. Starol Transplantation Institute, University of Fintsburgh Medical Center, University of Pittsburgh, Pittsburgh, PA 15213, USA.

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JOURNAL OF IMMUNOLOGY, (2002 Sept 18 163 (4) 3382-41. Journal rode: 09851108. ISSN: 0122-1160. SOURCE:

PUB. COUNTRY: United States

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Lu Lira; Thomson Angus W AUTHOR:

CORPORATE SOURCE: Thomas H. Starri Transplantation Institute, legartrent of

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Entered DTM: 10 and 1 26-2-62 ENTRY DATE: AB neaper 1, Theorem 1, or I regulatory- induced by DC (1). Evidence has accumulated that II glay an important role in both central and peripheral tolerance via various mechanisms, including induction of T-cell anergy, immune deviation, T regulatory cell activity, and promotion of activated T-cell apoptosis. Although many of the details of the molecular basis of DC tolerogenicity have yet to be elucidated, emerging information suggests that costimulatory molecule deficiency, expression of death-inducing ligands (in particular Fas [OD95] ligand), microenvironmental factors (in particular antiinflammatory/immunosuppressive cytckines), and inhibition of mentranscription regulatory proteins (e.s., nuclear factor-kappak) can impact tolerogenic potential to D7 [2]. Managulation of D7 by control of their maturation and differentiation, or wenetly engineering of these cells to express imminisuppressive molecules, offers potential for therapy of allogrant release in an east immune size are. In this brief coerview, we confine principle to the true of the principle to the true of the principle to the principle of the constraints committee at the office of the 125 AN WER FOR A 7 1 115 DUFFICATE 3 ACCESSI II IN MARKE: 413-48 MEDITAR. DOCUMENT NUMBER: first ngation of cardias allograft survival using TITLE: dendritic cells treated with NF-kB decay llig deckyribonublectides. COMMENT: Remarks In: Mod Ther / D. Sep; 0177:29-Erratum in: Zh u D (o rrested to Chen D) Giannoukakis N; Bonham C A; Çian S; Chen I; Feng I; Harnaha U; Li W; Thomson A W; Fung J J; Robkins E D; Du L AUTHOE: Department of Molecular Genetics and Ricchemistry, CORPORATE SOURCE: University of Mittsburgh, Pittsburgh, Lonsy, valid Mikel, TOA. TENNAL HILLE HILLE THAN THERATE, May . From Today + . HILLE THAN HILLE HAR HILLETTE - IN. CONTRACT NUMBER: SOURCE: POB. O TODAY: or and one recommendations FILE SE WELL: ENTRY N 100H: Andrew and Market State of the Communication of the ENTRY LAIR: 

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(CM40, CM20, The archield was address translated until their aparity to induce or area common responses, ispection of these molecules as distance of a common responses translation of the molecule. It tolerogenicity

to monopole of the archield of the molecules as well as DF-sk translation to the necessary by the expert, we so not rate that drum restranded of good wysic of the translation of a marrow-derived DC and specifically inhibit NF-kR-dependent translation of a reporter gene. Moreover, exposure of DC2 the officially inhibit of the officially inhibit of the officially indicated in the raide production, a marker of DC maturation.

The atment of the marrow-derived DC progenitors with NF-kB ODN selectively supressed the molecules are expression of costimulatory molecules without interfering with MEC class 1 or class 11 expression. Furthermore, NF-kB ODN DC induced allogeneic donor-specific hyporesponsiveness in mixed leukceyte cultures, and this was associated with inhibition of Th1-type cytokine production. Finally, infusion of NF-kB ODN molffield bine marrow-derived DC into allogeneic recipients prior to heart transplantation resulted in significant prolongation or allograft survivation the absence of immunisuppression. Sp. official marrow-derive with NF-kB and ther transcriptional patiways involve in immune stimulation in CC using DDN deepy appreads a dispense he means to promote to remark indication in CC using DDN deepy appreads a dispense he means to promote the remarked indication in CC using DDN deepy appreads a dispense he means to promote the remarked indication in the case of indication.

125 ALUNER 4 F F RESIDE It we can be near dendritic cells by  $\mathbb{T}(S)$ TITLE: - in: the oropial role of inhibitory receptors ILT3 and Communit in: Mat Immunol. 2002 Mar;3(3):215-7 CIMMENT: Than; C C; Cimbotarin R; Manavalan J S; Yuan J; Colovai A ACTHOR. 1; Flazna F: Lederman S; Colonna M; Cortesini R; Dalla-Pavera R; Sudic-Floa M CORPORATE SOURCE: Department of Fathology, Columbia University, New York, NY 10032, USA. SOURCE: Nat Immunol, (2002 Mar) 3 (3) 237-43. Journal code: 100941354. ISSN: 1529-3339. PUB. COUNTRY: United States DOCUMENT TYPE: Journal; Artible; (INTRMAL ARTIME) LANGUAGE: Englich FILE SERMENT: Arimity turnus ENTRY MINTE: ENTRY LACE: Harris and Marie Land than institute like and 1104 genths to a family of In additing the epiton of Mpresser buy normal run, bytes and dendritic cells. We see that the transfer to the first the endinger of the T suggests of 10 to a community of the open collation of 1173 and 1174 on men system and dendritic cells, remaining these and gen-presenting wills [AFCs] tolerogenic. Tolerogenic AT is show reduce it expression of restimulatory molecules and induce antigen-specific consequential of laws of the per colls. Studies of human weart transplant room, and so were that robe tribe-tree patients have circulating To colls, which induse the open polation of 100 and 100; in donor APCs. These findings isometrate and input and roomanies of income

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University of Fittskurgh of the Commonwealth Cystem of
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PATENT ASSIGNEE (8):
                                                 Higher Education, TGA
PCT int. Appl., 64 pp.
SOURCE:
                                                 CODEN: PIXXD2
DOCUMENT TYPE:
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LANGUAGE:
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                          DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF,
          BU, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG
US 2002048564 A1 20020425 US 2001-644915 20010427
PRIORITY APPLN. INFO.:
                                                                               US 2000-200479P P 20000428
        The present invention relates to a tolerogenic mammalian:
          dendritic cells (DCs) and methods for the product of the
          tolerogenic DCs. In addn., the present invention provides a
          method for enhancing tolerogenicity in a hist comprising
         administering the tolerogenic mammallen ICV of the present invention to the nest. The tolerogenic ICV of the present
          invention oughts on this we world have time of Mo which has the or more
          tolerogenic for the expression intention may further comprise a wheal we man, or also be managed and affect
         the tolerogenicity to the tolerogenic New When present
          therein. Enhance: tolerogenicity in a host is useful for
          prolonging for low graft survival and for treating inflammatory related
         diseason, on the according to the ases.
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                                                distinct media minimarray profiles of
                                                 tolerogenic dendritic cells
                                                Sudiu-Feda Cortesini, M.; Fianna, F.; Ho, E.;
AUTHOR(S):
                                                 Ciubotariu, R.; LeMabult, '.; Calla-Favera, R.;
                                                Cortesini, R.
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         Dendritic cells

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          irmature dendritic cells of mulated by T suppressor
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ce.ls differentiate into mature dendritic cells with a distinct paen type. The inentification of Technology apartmayor of dendritic cell and exactlation is easy, to the term press of a compact of the following sectors.

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L15 ANSWER 1 OF 2 CAPLUM CONVENIENCE AND ACCESSION NUMBER: CELEBRA CONVENIENCE MALCON ACCESSION NUMBER: en l'indution of character with MH+.Rappa.Boxecty ...... The English his transfer C. Andrew; Qian, Shiguang; Theu, English, Heng, Lansha; Harnaha, Jo; Li, Wei; AUTHOR . H: Inorson, Arris W.; Fung, John J.; Robbins, Paul D.; CORPORATE SHUBBE: Legartment of Molecular Genetics and Biochemistry, University of Pittsburgh, Pittsburgh, PA, 15261, USA Molecular Therapy (2000), 1(5, Pt. 1), 430-437 SOURCE: CODEN: MTOHCK; ISSN: 1525-0016 PUBLISHER: Academic Press DOCUMENT TYPE: Journal LANGUAGE: Enalish Dendritic cells (DC) classically promote immune responses but can be manipulated to induce antigen-specific hyporesponsiveness in vitro. The expression of costimulatory mols. (CD40, CD86, CD80) at the DC well surface correlates with their capacity to induce or suppress immuneresponses. Expression of these mels. Is asseed, with MF-.kappa.Bdependent transcription of their meses. Di tolerogenicity has been assect, with impaired NH-leappe.H-dependent thans mighten it costinulativy plas as well as  $W-\log p$  alboration to the nucleus. In this regard, we assume that a mis-stranded clindescylinghing times that this steel for NE-, kappa.B (MF-.kapra.E vill gas and remainly incorporated by bone marrow-derived DC and specifically inhabit NF-leaves H-dependent transcription of a reporter dene. Maretwer, exposure of 10 to the oligonucleotide decoys inhibited lipopolysa conaride LPS -induced mitric exide prodm., a marker of DC maturation. Treatment or bone marrow-derived DC progenitors with NF-.kappa.B ODN selectively suppressed the cell-surface expression of costimulatory mols. without interfering with MHC class I or class II expression. Furthermore, NF-.kappa.B ODN DC induced allogeneic conor-specific hyporesponsiveness in mixed leukocyte cultures, and this was assord, with inhibition of Th1-type cytokine produc. Finally, infusion of NF-.kappa.B ODN-modified bone marrow-derived DC into allogeneit recipients prior to heart transplantation resulted in significant prolongation of allograft survival in the absence of immunesuppression. Specific interference with NF-.kappa.b and other transcriptional pathways involved in immune stimulation in Istusing OIN decoy approaches followed one means to promete telepan we in motion in each transplant after. o i Amarini i Errika REFERENCE COOK: THERE ARE A TILED REFERRISH AVAILABLE FOR THIC FORMAT AND THE RESPORMAN A CONTRACTOR CONTRACTO Accessin numbers: 1:1:1:10 1: Incluse : tolerogenic dendritic cells for DOCUMENT NUMBER: TITLE: enhanding tolerogenicity in a host and methods for making the same E hilms, Faul D.; Du, Lina; Glanhoukakis, Nick University of Fittsburgh of the Commonwealth System of Higher Education, TUA TIVENTOR OF F PATENT ASSIGNEE (S): FOT Int. Appl., 64 pp. Noten: Fixed SUURCE: Pater. DOCUMENT TYPE: LANGUAGE: English FAMILY ACC. NUM. COUNT: FATENT INFORMATION:

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          YU, ZA, ZW, AM, AZ, BY, KB, KM, MD, RC, TI, TH
RW: GH, GM, KE, LS, MW, MZ, SD, MI, SE, TE, MG, ZW, AI, HE, MH, CY,
DE, DK, ES, FI, FR, GB, GE, IF, IT, LM, MM, ML, ET, ZF, TE, BE,
BU, CF, MG, TE, MK, GA, CM, MC, ML, ME, ME, MM, TE, TE,
     US Letteridas (4)
FRIORIST AFFILM. IMPO.:
    The present linearly related to a tolerogenic mamma landenning to the product of the tolerogenic line. In aum., the present invention provides a
     method for enhancing tolerogenicity in a host comprising
     administering the tolerogenic mammalian DCs of the present
     invention to the host. The tolerogenic DOs of the present
     invention comprise an elipsdepayribonuslectide (CDN) which has one or more
     NF-.kacca.H binding sites. The tolerogenic DCs of the present
     invention may further comprise a viral vector, and preferably an
     adenoviral vector, which does not affect the tolerogenicity of
     the tolerogenic DCs when present therein. Enhanced
     tolerogenicity in a host is useful for prolonging foreign graft
     survival and for treating inflammatory related diseases, such as
     autoimmune diseases.
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IIA ANNUER I E IV. AV. I I EEELEE. III. In the Same ACCEPSI I NUMBER : TITLE: in the community of the April progress bases esheebats, Attolic energy to the Ly TVA PATENT ASCITUTE : T.C., 4- gg., Chr.-In-part of U.S. Ser. No. 710,802, SO JRCE: skandinea. DOCUMENT TYPE: Latent LANGUAGE: English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KINE	FATE	AFELICATION NO. DAIR
US 6469144 CA 2249006 US 2002123116 US 1111144744 FRIORITE APPINA 1009 .:	ДД А1 А3	20021022	MS 1997-828683

ÆΒ The author disclasse the cloning and sequence characterization for the tumor negrosis factor family member Apr-3 and Apo-2 ligand inhibitor (Apo-2127, an extra verbular fragment of Apo-3 generated by alternative splitting. In addm., the author disploses the apoptotic function of Apo-3, a particl marageerication of its signaling pathway, and tissue specificity for its empression.

REFERENCE COUNT:

65 THERE ARE 65 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L14 ANSWER 2 OF 16 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 2002:770147 CAPLUN

137:259997 DOCUMENT NUMBER:

TITLE: Apo-3 rritein, a new member of TMFF family instables

apopulosis and related totaling and theretorization

Amberer, Ari INVENTOR (B): PATENT ABNI COFF SO : whentem, inc., 198

..., SOURCE: ari: mikka

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Novel polypeptides, designated Ap -4, which are rapable of office at the a AB inducing apoptosis weepromised. Aprel in the medical contribution sequences in a company of TURRI, and the analogy retrieval, and contain extra Ellilar systells -rish repeats and syteplassic actions in The SDNA for Apr-tossic lates by something that Apr-to-lates should be and the meneral content of the month of a precious of many and Agree and the meneral content of the month of

CPP32/yama. App-3 can artivate MF.kappa.B untivation. REFERENCE COUNT: THERE ARE 204 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE FE FORMAT listerpere for suits me and methodic for me there is entirely frames (%) Buse, Mary E.; Sutterman, Craan %) Hotmann, Coeph (%) Cayatilase, Famini 2.; casety, Late (%) TITLE: INVENTOR BOLL PATENT ANDI DEED : omers and note the spine not be and at long USA SOURCE: ..., h fi. Tien: Townen i at est. DOCUMENT THE: LANGUAGE: An illah FAMILY ACC. NUM. COUNT: ... PATENT INFORMATION: PATENT NO. KIND DATE APPLICATION NO. DATE US 6444233 B1 20020903 US 1999-314691 19990519 PRIORITY APPLN. INFO.: US 1998-85997P P 19980519 Ud 1998-99066F F 19980903 OTHER SOURCE(S): MARPAT 13":110318 AB The invention provides novel saponin mixts, and compute, which are isclate: from the species Acadia victoriae and methods for their are. These compds. May a made a triterplacing buy, which as a variable clean liberala, to which dig substitutes and shall be able to be less as a shallow. The mixture and the substitute of aparts as and optic words of the control of the sense of the control of the sense of a control of the cont THERE ARE IT CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT 114 ANIMER 4 OF IC MAINE CORVELANT ZOLA ADM ACCESSI N'NUMBER: 1834 P. CARINE DOCUMENT NUMBER: 1:1:1:3:4:40 TITLE: Inhibition of MF-lagrangity tritorpene compositions INVENTOR(8): Suffermen, Cordan V.; Haridae, Valsala Research levelopment Foundation, VVA FOT Int. Appl., 749 pp. FATENT ASSIGNEE(S): SOURCE: CODEN: FIXXDR DOCUMENT TYPE: Fatent LANGUAGE: Filaliah FAMILY ACC. NUM. COUNT: PATENT INFORMATION: 

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CTHER UNDERLY OF The Additional Control of the Cont tricipes to selection, there, liping or even addit monaterpenoid moleties. The ought can also suitain addit shem, functionalities. Methods to using these company to prevent and theat a wide range of inclanmatory thaiting, esp., promalimant inflammatory conditions are described. L14 ANSWER 5 OF 16 CAPLUS COPYRIGHT 2002 ACS ACCESSION NUMBER: 2002:391856 CAFLUC DOCUMENT NUMBER: 136:396944 TITLE: Freparation of Total line expressing HIV LIK was and CORF and the user of the relation in a streening . Migrake, Hiromni; linawa, Yudi; hara, Maran di INVENTOR(S): Stakeda (Memiral industries, Ital, Stapan) PATENT ASSIGNED TO : SOURCE: 4 T 161. App. . . 1 44. DOCUMENT TYPE: Eart-eart LANGUAGE: FAMILY ATT. HTM. TOTAL: PATENT INFORMATION: US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM BW: GE, GM, KE, LS, MW, MZ, SD, CL, SZ, TO, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MO, ML, ET, SE, TF, BF, BJ, CF, CG, CT, CM, GA, CM, EQ, W, ML, MF, MF, CM, TL, TR AU 2002014307 AE 20020820 AND 2 2-14/CU A 11110 CHT AFPLN. INFO.: PRIORITY APPLN. INFO.: And well the curry of constructed above with har the life respective of BIV and exercise the construction of the construction And Leffer a section REFERENCE CONT.: THESE ASSISTED SEFFERINES AVAILABLE FOR THIS SERVICE AND THE RE FORMAT L14 ANDWER 6 (F 1) PARTURE NETWORK AND ACCESSION INTERPRETATION OF THE PROPERTY OF THE PROPERT DOCUMENT NUMBER: He I nowth had rapidat Allograft survival using pendriting below the about with NF-lkgpalF domy TITLE: cliqueexyrik namle tiles Biann ukakis, Misk; Bonhan, S. Andrew; Jian, Shigrana; AUTHOR (S): Zhou, Zhongyou; Bend, Lancha; Harraha, J.; 11, Wei; Thomas ry Armer May Bonny, January Baralana, Baralana, in, thus Tegral the interior of the end and the tolerance has been adapt.

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Dendritio cells (IC, classically promote immune responses but can be AΒ manipulated to induce antigen-specific hypotesponsiveness in vitro. The expression of costimulatory mols. 1984, 1984, 1985 at the 19 cell surface correlates with their capacity to induce or suppress immune responses. Expression of these mols, is assort, with NY-.kappa.Bdependent transcription of their gener. DO toler year into his neer. dependent transcription of their gener. DO teleropenisity has reen assocd, with impaired NF-, kappa, being ment transcription of a scimulatory genes as well as NF-, kappa, betranscription to the notices. In this report, we consider the final order transcription to the scyclin note to be continued in the first plane of the science of t of buse marriw-derived 17 progenitors with NF-.kappa.B ODN selectively suppressed the reli-curry observation of custimulatory mols, without interfering with NHC class for class II empression. Furthermore, MF-. darga. Bolin 17 in it was all ageneic donor-specific hyporesponsiveness in mixed loak type matures, and this was assold, with inhibition of Thi-type cytokine prodn. Finally, infusion of MF-.kappa.B ODN-modified bone marrow-derived DC into allogeneic recipients prior to heart transplantation resulted in significant prolongation of allograft survival in the absence of immunosuppression. Specific interference with MF-.kappa.B and other transcriptional pathways involved in immune stimulation in DC using ODN decoy approaches could be one means to promote tolerance induction in organ transplantation. (a) 2000 Academic Fress. 24 THERE ARE 24 CITED REPERENCES AVAILABLE FOR THIS RECORD. ALL STOATS OUT AVAILABLE TO THE RESPONDE REFERENCE COUNT: LI4 ANDWES TO E 10 WE TO THEVELORISE AND ACCESSING NUMBER: THE CONTROL OF THE CON to beropenitity on a nost and methods for making the INVENTO: : Figure, Figure I.; Nu, Mina; Giannoukakis, Nick PATENT ASSIGNED S : Introductly at Eltisburgh of the Commonwealth System of Higher Rducation, MSA î înt. Appl., 64 pp. SOURCE: COLEN: FIRKDA DOCUMENT TYPE: Earent LANGUAGE: English FAMILY ACC. NUM. COUNT: PATENT INFORMATION: PATENT NO. KIND DATE APPLICATION IN . DATE \_\_\_\_\_\_

in the precent invent, in related to a toleropening rangelian denomination because (D's) and retically for the profile of the toleropening Dr. of reading, the present invention provides a retical transmission toleropening in a host corprising administering the toleropening rangelian D to or the present.

inventural to the north line to be about 1.5 of the greeent invention objects on the present of the NF , capable of the NF . The transfer of the present invention may further oppose to an a very manageneric plant and adenoviral vector, whom is an attention to the toler the following in a pest is useful for present therein, annual test termentally in a pest is useful for . protonging to both that the notice of any toring inclammatory related diseases, such as alteinment diseases. 114 ANOWER 8 OF 16 CAPIUS COFFEIGHT LD D AME ACCESSION NUMBER: 2001:489040 CAFLUS DOCUMENT NUMBER: 138:80195 TITLE: Inhibition of glyrogen synthase kinase t.beta. (GSK-3.beta.) for inhibiting MF-.kappa.B, and therapeutic use Hoeflich, Klaus; Lu , Luan; Mostigatt, Jim THYFHTOR(S): The Optario Cancer Institute, Com. PATENT ASSIGNEE(S): SOURCE: HOT Int. Appl., to pp. minent: Finni DOCUMENT TYPE: LANGUA H : FAMILY AND. 1991. TOTAL PATEUT LINE CARACT DE FATENT IN. FILL LATE APPLICATION NO. DATE \_\_\_\_\_ \_\_\_\_ \_\_\_\_\_ \_\_\_\_\_\_ WO 2001047837 AZ 10115755 W0 2000-0A1578 20001221 WE AN, TA, TE, TE

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PT, RE, TE

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TO THE DM TO TE OP OR TE, LE, MI, SE, MC, PT, R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, ML, SE, MC, PT, IE, FI, CY, TR US 2001053351 A1 20011220 US 2000-747552 20001222 US 1999-172064P P 19991229 PFICHITY APPLN. INFO.: WO 2000-0A1508 W 20001221 The activity of MF-kP is mudulated through the someons in AMF-sun AM-sh

The activity of Ne-ke is midulated uniting the effects in NE-ki NK-ki activity. Inhibition of down-regulation of NE-ke results in decreased NE-ke activity. Inappropriate activation of NE-ke has been line-of inflamment in sharpy priate activation of NE-ke has been line-of including strategies provide a therapeutly to a first the treatment of provention of various uses as the repeating to a first the treatment of provention of various uses as the repeating the activities of NE-ke inhibition, when administeness in the continuous strategies in the continuous of TNE tempt to 1. If an activity and also be expected in NE-ke function are also provided. ri videli.

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AUTH(R(S):Rochark, Kenneth A.; Saifuidin, Mchammed CORPORATE SOURCE:

Department of Immunology Microbiology, Ausil Presbyterian St. Liketa McBioglobater, Thiograph, II,

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learned about the transpriptional repulation of the HIV-1 denome ininfected cells. It has been demonstrated that HIV-1 transcript in depends on a varied and complex interaction of host well transcription factors with the viral long terminal repeat [LTE] promoter. The regulatory elements within the LTE interact with constitutive and individue transcription factors to direct the assembly of a stable transcription complex that stimulates multiple rounds of transcription by BNA polymerase II (RNATII). However, the majority of these transcripts terminate prematurely on the deem to the viral year of the rounds transcripts of transcriptions for protein lar, which of includes all decembers to the strength of the contract of the viral strength of the contract of the viral strength of the contract of the viral strength of the viral transcripts. The inveloperation is nearly to a velicar sinare into the invitant new control of preties of FIMIT arranged to the annual control of the control of the summarines our current Anomieste and one notability of the resulation of HiV-1 transcription in into their william and additints the important contributions human lentivirus dene reducation has have to our general understanding of the transcription ringess.

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L14 ANSWER 10 OF 16 CAPLUS COPYRIGHT 2002 ACS

1999:657226 CAPINS ACCESSION NUMBER:

DOCUMENT NUMBER:

132:161869

TITLE:

Long terminal repeat promoter/enhancer activity of

different subtypes of HIV type 1

AUTHOR(S):

PUBLISHER:

Naghavi, Mojgan H.; Schwartz, Steinn; Sonnerborg,

Anders; Tahuna, Anders

CORPORATE SHORME:

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DIEN: ARBRET; ISMN: 0889-2229

Wary Ann Lienert, Inc.

DOCUMENT TYPE: LANGUARE:

Journal -English

Transcription of the HIV-1 provinus genome is regulated by a complex interplay between viral regulatory proteins and collular transcription factors that interact with the viral lung terminal repeat (LTR) region of HIV-1. However, several collular transcription tactors have been identified that can interact with the HIV-1 LTR; the simulficance of all of these factors is not clearly understood. In this study the authors of these factors is not clearly understood. In this study the authors have characterized the LTR residual fifteeent subtypes of HIV-1 with regard to nucleotide sequence an ignometer and vity. The LTB residuals HIV-1 from peripheral has in a narrow as each of the LTB residuals originating from 10 different be at health of a new residuals of and further analyzed to provide a subtype of a new residuals of the villa, it the context of a sequence and a narrow residuals of the villa, it the context of a sequence as a subtype of the villa sequence of

result in HTV-1 surpper with first Run replicative properties.

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1014 ANDREE IN THE STATE OF THE TITLE: delegate processing to DNA duplexes, o ntaining a man superiture approphosphate Internitie tide i mi Franceva, Elema A.; Federova, Olga A.; Gottikh, Marina AUTHOR :: H.; Tanaka, Hirakai, Malvy, Claude; Shabarova, Zoe A. A.M. Helopersky Institute of Physical and Chemical CORPORATE SIGNATE: includy and lepartment of Chemistry, Mosdow State Thiresity, Misrow, 119-49, Russia FEBS Letters (1996), 381(1,2), 35-8 SDUECE: CODEN: FEBLAL; ISSN: 0014-6093 Elsevier PUBLISHER: DOCUMENT TYPE: Journal LANGUAGE: English AB . A new express technique based in the use of British Synthering LAN. A new express technique based in the use of Fe W to systems so INN duplexes contq. Den-substitute a or row sensitiude i pyr prospinate internables ide is no was proposed. This teams per use used to proposed duplexes having no robe in international teams as tween all and a tresidues in the noman INE-supposition of international teams within the roughition site of the proposition of the robe international INE-skappa. B pEO subunit complex with the corresponding appreciation of NF-skappa. B pEO subunit complex with the open sprainful apprecase. The crosslinking of NF-skappa. B programmed to the robe of the proposition of the prophosphate internation time is no was subjectfully performed. 114 ANIMER 11 OF 16 CARLOS OFFICERS 2 11 ACS 1994:696626 CAPLUS ACCEDSION NUMBER: DICUMENT NUMBER: 121:296626 TITLE: Istermination of the binding of transcription factors to nucleic acids by immunoassay INVENTOR(S): Loppler, Clemens; Himspeter, Matthias; Stockinger, Hubertus PATENT ASSIGNEE(S): Boehringer Mannheim G.m.b.H., Germany SCURCE: Eur. Fat. Appl., 9 pp. CODEN: EPHHEW DOCUMENT TYPE: Patent LANGUAGE: Terman. FAMILY ACC. NUM. COUNTY: PATENT INFORMATION: REFERENCES TO THE STATE . . . . . . . . E 4.1444 E 4.1444 [A4] GBB (1984-1995), 1960 (1984-1499) 18 1393-4312393 13930416 PRIORITY APPLAY. INF.: TH 1:499-4:10:399 19930416 AB Birding of a transmighten factor to a nucleic acid is detail by (a) irm. Billining either the model carding the transcription ractor on a solid phase; "keein obtains the transcription ratter with the nucleio avid; of administ labeled antoropy to either the nucleis avid or the transcription factor under a mysticized indicator naivi may be segnet. solid and liq. phases; and to measuring the amt. of label in wither phase. Thus, binding of transcription factor NEWE in nuclear ext. to a PMA-PHA-activated Turkat wells to a cynthetic allo is myrib nucleated. contr. a binding site of a MERR was letter by the archering ext. with ki tinyisted. Ila muse tua , ara krastus-Taru, assos su antar ay t

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ACCESSION NUMBER: 1994:47374- MARION DOCUMENT NUMBER: 1...1:27:34:4 In withe study of functional involvement of Apl, TITLE: MP-.kappa.B/Rél, and API in providing memyristaté 13-apetate-mediated HIV-1 long terminal repeat abtivation Li, Yorbi; Mak, Willia; Franca, Ribert B., Mr. AUTHOR(S):Oold Spring Heri of Lab., I had Spring Harrier, New York, CORPORATE SOURCE: M, Hid, WA The distribution of the distribution of the distribution of the  $\gamma$  -distribution of the  $\gamma$ CONTRACT: which the marginal limit of the meaning of a Malestanar form M . Let  $\tau_{ab}(a)$ F.BLICHER: DOCUMENT TYPE: LANGUAGE: Bargalan. AB We example the or kerative activity between the Spl and MF-.kappa.B/Rol sites of the human immanodeficiency virus type I long terminal repeat in response to phorhol 12-myristate 13-abetate (FMA) stimulation in an in vitro transcription assay. Spl sites alone do not account for the activation induced by PMA. When mutations in Spl sites were combined with mutations in the NF-.kappa.B/Rel sites, a dramatic redn. in PMA-induced transcriptional activity was obsd. This redn. was much greater than the redn. assocd. with mutations involving only the NF-.kappa.B/Rel sites. This finding suggests that there is functional cooperation between Spl and NF-.kappa.B/Rel and that this is one possible mechanism for transcription. activation by NF-.kappa.B/kel. The three All vites in the reg. resulatory region of the long terminal repeat, however, seem to be unincolved in the earliest moments of transmiretional activation by HWA. L14 ANDWER 14 FOR WILLIAM FERENCE WAS TWO STREET AND WELL AND ACCESSION NUMBER : TO SERVE WELL AND ACCESSION NUMBER : TO S ACCESSION NUMBER: DOCUMENT NUMBER: . . . . . . . . . Industription factor Aircorregulates human contacts to the my virus type 1 gene expression lengths, Nail D.; Adran of, Adam, B.; Duckett, Colin J.; Marel, Bary 1. Howard Hughes Medical Institute, University Michigan, TITLE: AUTHOFFOR: CORPORATE COMPAR: Ann Arbor, MI, 4\*109-3686, USA Tournal of Virology 1994), 68(10), 6820-3 SOURTE: TODEN: JOVIAM; IDSÑ: 0022-538X DOCUMENT TYPE: lournal LANGUAGE: English AB Human immunodeficiency virus type 1 (HIV-1) gene empression is regulated ty an enhancer region composed of multiple potential dis-acting regulatory sites. Here, we describe kinding sites to the transcription fact a Aiin the HIV-1 long terminal repeat which models to HIV endances constitut. One site is embodied within the two previously exercise in Aegpack elements, and a second site is detected by their demostrate. Itlese I fortprinting and electroph settler allowy scott consystations as nativated that AF-C air not once often as tweet the compagnite depends. Contenent in any, AFF. And MIERO APPLICATION OF A STATE AND Ida Richert ANDERNI I MUTEER: DOMMENT MUTHER: ::::: Doubtling intwo SIMACARA Bind bina bina proteins which bins to the laghall-antitry sin promoter and to the major must one stability of mplex class I enhancer Mit de Intro. (Satispines, Indoni, Cincia, Contess). AUTHOR D': Pitcher :

CORPORATE DOTATE: or and Model Book, Control Headershoot of the American tions in Antarcheologich, och 1, 141-och i Massa, politik och 1, 4-SOURCE: DOTOMENT THEFT LANGUATE: Two partial divas to since it in 1904-bin since proteins (AT-BP1 and AT-BP2) were ΑĐ is later. He to principle, when prepare from leading till lysogens, bind to the B-domain of the .alpha.l-antitrypoin promoter, an element which is important for the lower-specials expression of .alpha.l-antitrypsin. Anal. of the SUVA sequences on a sing these proteins reveals that both contain 2 mind fingers of the Cys2-His2 type followed by a highly addice stretch of 20 amino acids. AT-BF1 contains a 2nd putative DNA-binding domain consisting of an 8-fold repeat of a SFKK (Ser-Fro-Lys/Arg-Lys/Arg) motif. Both proteins bind to the NF.kappa.B renognition site in the MBC gene enhancer with significant higher affinity than to the .kappa. immunoglobulin gene enhander, or to the B-domain of the .alpha.1-antitrypsin gene promoter. And. of mRUA expression snows that AT-BP1 and AT-BP2 are expressed in all the time see -mand. While the physiol. roles of AT-BP1 and AT-BP2 recoin to be equilibred, their predicted asing a disceptible and the collider management of support of the collider of the co LIM ANDER DO FOR A TO THE RELEASE ACCESSI NI NUMBER: .1.:114 6 DOCUMENT NUMBER: TITLE: TV-indured DNA damage is an intermediate step in TW-indused empression of human immunodeficiency virus type 1, collagenase, c-fos, and metallothionein AUTHOR . :: Steln, Bernd; Kahmsdorf, Hans Jobst; Steffen, Anja; litfin, Margarethe; Herrlich, Feter CORPORATE SOURCE: Inst. Genet. Tomikol., Univ. Karlsruhe, Karlsruhe, J=750071, Fed. Rep. Ger. Molecular and Cellular Biology (1989), 9(11), 5169-81 COMEN: MCERC4; ISON: SATCHTANE SOURCE: DOCUMENT TYPE: Journal LANGUAGE: English The primary target of relovant UV absorption, the pathways leading to deno-activation, and the elements receiving the UV-induced eightal in the human immunodeficiency virus type 1 [HIV-1] long terminal repeat, in the memording for a liarning, and in the second not been for were itside in infinite the agency of the control of the second not and to be another any IMA and to the second not be appropriately to the patients with the repaire of the control of the patients with the patients with the control of the Bornest of the another agency the fraction of the Bornest of the patients of the first patients of the Bornest of the of of the following sense, and between positions  $-\infty 20$  and -299 of fos). There electronical national apparent or paints motified and bind different transfer independent, a remission transfer a.B. family binds to the BFU-1 enhance, the better dimension in and Fes (AF-1) binds to the This series with an erg and the series response tentors  $p \in \mathbb{N}$  and  $p \circ \mathbb{Z}$  bind to few. TNA-rinding activities of the factors recognizing the HIV-1 and collagenase enhancers are authented in exts. from VV-treated rells. The increase in activity is due to posttranslational modification. Whereas AF-1 resides in the nucleus and rust be noblated there, NF.kappa.F is activated in the cyt plasm, indicating the existence of a cyt plasmic signal transduction pathway trimmered by SV-info. WeilIMA damage. It will to activation, new synthesis of AF-1 or only being SV resistors.

## PALM INTRANET

Day: Thursday
Date: 11/21/2002
Time: 10:36:16

## **Inventor Name Search**

Enter the **first few letters** of the Inventor's Last Name. Additionally, enter the **first few letters** of the Inventor's First name.

Last Name	First Name	
Robbins		Search

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## PALM INTRANET

Day: Thursday Date: 11/21/2002

Time: 10:39:03

## **Inventor Name Search**

Enter the **first few letters** at the Inventor's Last Name. Additionally, enter the **first few letters** of the Inventor's First name.

Last Name	First Name
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Back to PALM ASSIGNMENT OASIS Home page

AMSWER 1 OF 9 BIOSIS COFYRIGHT 27/11 BIOLOGICAL ABSTRATES INCLUMENTABLE I ACCESSION NUMBER: 2002:345247 BIOSIS PREV200200348847 DOCUMENT NUMBER: Allothimeric class i MHC protein-indice it lends to by TITLE: guartial TOR and parement of pulses are unit in our goath of 1944-and or more granner distinct appropriate of systems of interest. And the horal range main-repensent type sine to main.

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Especial, TR, Combiners, Capril 27, 2002) Vol. 73, No.

7, pp. 124-156. http://www.transplantjournal.com/.print. A.THOR .: CURPORATE I THE U.S. SCURCE:  $\mathbb{C}_{\mathcal{A}}(\mathcal{A}) := \mathbb{C}_{\mathcal{A}}(\mathcal{A}) = \mathbb{C$ DOCUMENT TYPE: Artice LANGUAGE: English Background: The tark by toxicities associated with the general immune suppression resulting from current diminal immunosuppressive therapies continue to plague transplant recipients as well as jeopardize allograft survival. Methods: The present study utilized allochimeric class 1 MHC artigens (alphalh u70-77-RT1.Aa) bearing only four donor RT1.Au polymorphic amino acids (a.a.; HisTO, ValV3, AsnT4, and AsnV7) superimposed on the recipient RT1. As background to induce transplantation. telerance in the rat pardiac transplant model. Results: Oral delivery of alphalh u70-77-RT1. As protein alone 'days (-) induced talerance, as evidenced by inhibition of both acute and chronic rejection processes. Delivery of alphath (71-70-87). As with the rapeut is doses of hyptosporine (CsA) also prevente; chronic rejection, ithrwise readily developed after to itment with AA one. Applymenter of the reaction Fike-based analysis slower that the elementer of pents had be also a numbers of interlegain. (II - Dinterferon Coll - formu-group on FI neaper (In, I cells and elevated numbers i New New Egy with Time House Adoptive transfer experiments rest also that putent resulatory Torsius mediated tolerance. The same T dells displayed almosished Torell receptor (TCR)-driven signaling via extracellular regulated kinase, AP-1, and NF-kappaB, as well as the common gamma-chain gammac bytckine-reseptor-induced signaling by Janus kinase 3 (Jak3)/stimulators and activators of transcription Stat/5 pathways. Tolerance induction was prevented in vivo by inhibition of signal 2 by CTL41g or of signal 3 by either rapamyrin, which disrupts the mammalian target of rapamycin, or AG490, which inhibits Jak3. Finally, partial or complete tyrosine phosphorylation of Dag D. was isserted in alloantigen-specific Theell clones in response to tolerogenic versus immunogenic peptides, respectively. Conclusions: Talerance induction by allochimeric proteins is achieve try partial TOP and TOTAL AL HOLDER EL EL in the presence of signals 2 and 3, resulting in a skewed Includen type. L6 ANSWER 2 OF 9 BINDING THEY HELD TO BE INVESTIGATED FROM THE LOCATE S ACCESSION NUMBER: DOCUMENT TOWARK: construction to a construction of the con APTHOR : CORPORATE COME THE inum plantatu no Baltim ne , o tambany 18, o 1915 Usi. 19., No li Japinson , pp. silesti. RATECE: http://www.prancplant.com.al.com..grint. DOCUMENT TYPE: General Borlew LANGUAGE: En il fæld Dendritic cells (DC) constitute a replex system of unlipsely well-epslips  $\epsilon$ antigen-presenting of lighthat unitiate and require upone help moved

Extensive we entitle use in the logic war our understanding of DC divergency, while of atom, wasturation, and imposing DC exist as distinct surgers that after in their disease affiliation, surface milecule expression, and it is size function. These factors seem to determine the T-wil polarizing signals and type of T cell response-T nelper 1, T helmer 1, in T result my-inficed by DC (1). Evidence has accumulated that 10 ylay an important role in both central and peripheral tolerance via various mechanisms, including induction of Terell anergy, immune deviation, T regulatory cell activity, and promotion of activated I-cell apoptosis. Although many or the details or the molecular basis of DC tolerogenicity have yet to be elucidated, emerging information suggests that destimulatory molecule deficiency, empression of death-inducing ligands (in particular Fas (CD95) ligand), microenvironmental factors (in partitual antiinflammatory/immemosuppressive cyt kines , and inhibition of whe transcription resulatory proteins (e.g., notical factor-eappar can impact tolerogenic potential to DC 100 Managed to a DC 100 Apparent of their patents.) cells to express including resolve to receive, differs pitential for therapy of all draft read to head and include absence. In this prior overview, we cuttine promophes and methods for deheration of "tolerogenic" DC and outtomes that have been reports with experimental models. Space constraints limit literature ditations.

L6 ANIMER 3 OF 9 BIGSLY COFFRIGHT 2002 BIOLOGICAL ABSTRACTS INC.DUPLICATE 3 ACCESSING NUMBER: L. DECKONDE BINCIS DOCUMENT NUMBER: EREV2.0000167808 TITLE: Reduced expression of NF-AT and NF-kappaB transcription factors in tolerant recipients treated with

tolerogenic allochimeric denor/recipient class 1 MHC protein.

Akioka, K. (1); Kirkin, R.; Wang, M.; Tian, L.; Yu, J.; AUTHOR(S): Stepkowski, S. M.; Kahan, B. D.

 $(1)^{2}$  Division of Immunol gy and Ordan Transplantation, CORPORATE SOURCE:

University of T-was Medical School at House 1, 7481 Fabble St, House n. TM. To the WA

Transplantation for sections, C. W., 1899 C. I. 31, Ms. 7, SOURCE:

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TITLE: Markel prolongation of our Har all grain survival by dendritio cells genetically engineered with NF-kappaP oligodeckyrik nusie tibe de syvoaniaaen viral mest re

encoding CTLA4-14. Bonham, C. Andrews Febru, Landbas Illand, Elasyans then, AUTHOR(S):Dongyers, Wares, Lientes, Ma, Lindin, Harmetein, Houses,

Rabbins, Cartitle Therend, Andrew Mag Fund, Cities and Cartin Company .....

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DOCUMENT TYPE: Article LANGUAGE: English

Bone marrow-derived dendritin cells (17%) can be destically enclosers: using adenoviral (Ad. vectors to express immunisuppressive molecules that promote Total unresponsiveness. The receivers of those DNs for therapy if allograft rejection has reen limited in part by they founded to be adenovirus to promote Total and refer the part at limited and refer the IN to the responsive to promote the INT of the IN

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INVENTOR'S):
PATENT ASSISHED IN:
                        University of Flatsburgh of the Commonwealth System of
                        Higher Elloation, TMA
SOURCE:
                        FOI int. Appl., 64 pp.
                        TYPEN: PIKKNI
DOCUMENT TYPE:
                        Patent
LANGUAGE:
                        English
FAMILY ACC. NUM. COUNT:
PATENT INFORMATION:
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PATENT NO. KIND DATE ABBLICATION. DATE

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MF-. Rapper For in the relition. The tolerogenic life of the present invention ray farther comprise a viral vector, and preferably and should be referably and should be referable to the tolerogenicity of the tolerogenic like when present therein. Enhanced tolerogenicity in a next le deeful for prolonging foreign graft survival and for the atlant into amount by related diseases, such as aut immune alseanes.

ANSWER 6 OF 9 CAPLUS COPYRIGHT 2002 ADS 1€ ACCESSION NUMBER: 2001:922841 CAPIL'S DOCUMENT NUMBER: 137:45987 TITLE: The role of StatS in the industion of resulatory T cells in transplantation tolerange Stepkowski, S. M.; Kirken, E. A.; Mary, Z. C.; AUTHOR(S): Trawick, B. W.; Wans, M.; Delpai, M.; Mans, M.-F.; Tian, L.; Clark, L.; Kanad, F. 1. and Depurtment of Internative Flynory, University of CORPORATE SOURCE. Tribut, Bourt by IE, IVA Construction for Newstrass (101, 15, 15, 3-35-3536 SCURCE: 1 .ED: 1888Ary 12000: 0.41-1845 FUBLISHEE: ruse with right and a limit. DOCUMENT TYPE: LANGUAGE: Br. Wish AB The roles is extrabilitian-resulated kindse 2 (Erk2), NF-.kappa.B, AP-1, Janus typosine kinase + (Jak3), and stimulators and activators of transcription 5 (Stat5) in mediating transplantation tolerance were studied. Tolerant recipients that had carried functional Wistar-Furth (WF) graits for more than 100 days were rechallenged with a second WF heart. Purified T cells from spleens and lymph nodes of rejectors and tolerant T cells showed a significant increase in Jak3 empression. The presence of phosphorylated Erk2 and the expression of Jak3 indicated that the tolerant animals have actively reacting alloantigen-specific T cells, but that their response was distinct from that in nonactivated T cells of syngeneic grafts or fully artivated T tells in rejectors. Toler at T cells showed almost undetectable AP-1, NF-.kappa.B, and Stat5 DNA Lindin: activities. The LMG-2 plane stimulates with immunations 9.4.4. - payrise showed potent State CNA kinding Instability 11-1 in the ctuer mand, the 186-18 to be unlimited as the tolerogenic 4.7. paytine on ware as a first of 1500 a carrier after 11-2 grand catter the Station of the catter the Station of the catter of the catter and the catter of the en rubinent i REFERENCE COUNT: THEFE ARE I DITEL PEPERANCES AVAILABLE FOR THIS BECCRE. AND CITATIONS AVAILABLE IN THE RE FORMAT I.6. PROMER TO FOR THE DOTAGO TO EXPENSE UP I ACC ACCESSION NUMBERS: 1:1409.\* 20100 December of the second 100 100 100 100 100 TITLE: library mana min array profiles of

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Suciu-Foca Cortesini, N., Hanna, F., Hr, K., AUTHOR(3): Cimbotariu, E.; DeMarult, J.; Dalla-Rabera, E.;

Cortesini, R.

Department in Eath Lory, Climbia University, New York, NY, TUA CORPORATE SOURCE:

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changes occurring in tolerogenic AFC, the mRMA profile it KG-1 dendritic cells exposed to allospecials Tobelper and Tosuppress robels were analyzed. This study now provides evidence that immature is not in Holo unaryled. This soluly how provides evidence that immature denomitiate cells stimulated by T suppressor wells differentiate into mature denomitiate cells with a distinct phenotype. The laghtlifted in a law income pathways of denomitiational differentiation is writed the development of now therapeut is strategies.

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ACCESSION NOMBER:
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TITLE: https://decimal common allograft survival using hemarific hells treated with NF+.kappa.B decoy

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AUTHOR : Plannoukukis, Nick; Donham, C. Andrew; Qian, Shiguang;

Thou, Zhongyou; Peny, Lansha; Harnaha, Jo; Li, Wei; Thomson, Angus W.; Fung, John J.; Robbins, Paul D.;

Lu, Lina

CORPORATE SOURCE: Department of Molecular Genetics and Riochemistry,

University of Pittsburgh, Pittsburgh, PA, 15261, USA

Molecular Therapy (0000), 1,5, Ft. (1), 460-480 CODEN: MTCHOK; Ison: 1929-0 18

PUBLISHER: Adademic Fress

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LEGENT BOUND BOUNDS - BIO I BIORO ABSTRANIS DUNLOSBUIGATE I ACCESSI I I I WHEE: DOCUMENT NUMBER: -----Managaratian : dendritic cells for to learn we indication in transplantation and autoimmune distance. 1., line 1; Thomas, Angus W.
[1] Thomas E. Starni Transplantation Institute, University of Fittsburgh Medical Center, 200 Lothrop Street, E1654, ATTHORES : CORPORATE SOURCE: Richadical Science Towar, Flotsburgh, FA, 1821: Lul@msx.upmc.edu USA Transplantation (Baltimore), (January 15, 2002) Vol. 75, SOURCE: No. 1 Supplement , pp. 819-922. http://www.transplantbournal.com/. print. ISAN: 0041-1830. General Bewley DOCUMENT TYPE: Dendritic cells (1) or not true a control of the true initiation, surface

of 12 average of the cells (1) or not true as control of the cell of the control of the control of the control of the cell of the control of the cell of the control of the control of the cell of the control of the control of the cell LANGUAGE: AB molecule expressi n, and blological function. These factors seem to determine the T- - II polarizing signals and type of T cell response-T neiper 1, I helper h, in T regulatory-induced by DC (1). Evidence has as mumulated that 10 glay an important role in both central and peripheral telerance via various mechanisms, instuding induction of T-cell anergy, immune deviation, T regulatory sell astivity, and promotion of activated T-rell apoptosis. Although many or the details or the molecular basis of DC tolerogenicity have yet to be elucidated, emerging information suggests that costimulatory molecule deficiency, empression of death-inducing ligands (in particular Fas (CD95) ligand), microenvironmental factors (in particular antiinflammatory/immunosuppressive sytckines;, and inhibition of genetranscription regulatory proteins (e.g., nuclear faster-kappaB) can impact tolerogenic potential to DC (A . Manipulation of DC by a night at their maturation and differentiation, or generic entire characteristics and differentiation. cells to express loss an ouppressave in a rules, there potential for therapy of all draft resemble in a set for an execution of the true outline principles and methods for an energia in a "tolerogenic" To and cut or release and have been reported in experimental models. Space of intraints of the contract of the PI DIN CHEFFIRE . LEFT LOSTAL ABOTRACTO INC. ELECTRO EL CIN EFEUL LECTRA CHA ACCESSI II NUMBER: DOCUMENT NUMBER: TITLE: Markon probinsation of cardian allegrate survival by dendritic cells tenetically entirement with NF-kappak oligide kyribenu lebtide de bys and adenthinal beharakens dina MAD-19. Bonham, J. Andrew; Lent, Lansha; Llant, Miscyan; Chen, AUTHOR(S): Dongyou; Wang, Diento; Ma, Dunlin; Hackstein, H. Lerr, Bokkins, Paul D., Thoman, Angus W., Pung, Jian, Chiguang, Eu, Jian, Chiguang, Eu, Jian J. Jian, Chiguang, Eu, Jian J. Jian, Jian J. Thomas E. Starni Transplantation in titute, University of Pittsburgh Madical Center, J. Jithy p. Street, CORPORATE SOURCE: er medical strike no toway milat, altradiel, dw. its ist gasmomagnija da 1976 and the state of t or marking ego a la composition de la composition della com 130 836 1 AB Program = France dendritic cells (10) tables

genetically envincered islantated virial. As vertical express immunosuppressive a secules that provide I was independently bear. The sixtess of these 1% for the application is in the least in the least indicated in part by the action of the associated to provide I maturation and the interest and to obtain a country of a BH-eap ab-dependent mechanisms, which can be a constructed as the eap ab-dependent mechanisms, which can be a constructed in BH-eap ab-dependent mechanisms, which can be a constructed in a close of BH-eap ab-dependent mechanisms, which can be a till-eap about the apparent BH-eap about the according CTLA4-Ig (Ad CTLA4-Ig, to pend a constructed in a random atom the myelodic BCs that secrete the potent costimuration blocking agent. These Ad CTLA4-Ig-transduced ODN DCs exhibit markedly impaired allost implicatory ability and promote apoptosis of activated T bells. Furthermore, administration of Ad CTLA4-Ig ODN-treated donor DCs (C57BLIG; BIO(H-Zb)) before transplant significantly prolongs MHC-mismatched (C3HH-G; C3H(H-Zb)) vasculation neart allograft survival, with long-term (>100 days) denor-specific graft survival in 40 of recipients. The mechanism(s) responsible for BC tolerogenicity, which may involve activation-induced approxis of all respire T bells, a not lead to skewing of intragraft Th by obtine responses. The first of NF-Eap definitions agent often promise for the rapy of all graft televition is autoimmune disease with minimization of systemic impunessponssion.

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

the tolerogenic DCs when present therein. Enhanced tolerogenicity in a host is useful to probability reliable to reliable to survival and for treating intlammatory related diseases, such as autoimmune diseases. L8 ANOMER 4 OF 1 MAINT TERRORES AND ACCESSING NUMBER: 11 TO 12 TO TITLE: tolerogenic dendritic cells AUTHOR . :: outside Fore Contestini, M.; Elema, F.; Ht, H.; Dur tarl, F.; DeMirelt, J.; Dalla-Favera, R.; Tresini, F. Lepartment of Fathclogy, Columbia University, New CORPORALE SUURME: Yirk, NY, USA Humar. Immunology (20:1), 62(10), 1065-1072 CODEN: HUMMDO; ISSN: 0198 8859 SOURCE: PUBLISHER: Elsevier Science In . DOCUMENT TYPE: Journal LANGUAGE: English Dendritic cells are crucial to the activation as well as suppression of the immune response. Frevious reputs have illustrated that APC interacting with antigen-specific T suppressor cells become tolerogenic, inducing T helper anergy. To characterize the mol. changes occurring in tolerogenic AFC, the mRNA profile of EG-1 dendritic cells exposed to allospecific T belyer and T suppress to boils the smallyreal limit of dynamic provided evidence that invariate dendritic cells of in lateracy Toughteener. te la difference to an orange dendritic cells with a cistic to pure type. The landidation of the increase pathways of dendritic cell authoration in the transfer the development of new therapeutly strategies. REFERENCE COUNT: 40 THERE ARE 40 DITEL REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT DE ANSWER 5 OF BUICARDIN TORYRIGHT 2002 ACS ACCESSI NI NUMBER: . 2011:199192 | CAPIMS 137:41416 DOCUMENT NUMBER: TITLE: Prolongation of partial allegrant survival using dendritic cells treated with NF-.kappa.B decoy oligodecxyribonu leotides Giannoukakis, Nick, Benham, C. Andrew; Jian, Shirumo; AUTHOF (S): Zhou, Zhongyou; Beng, Lansha; Harnaha, Sc; II, Wel; Thomson, Ampres M.; Fond, Man. J.; Fillins, Facility lu, lina Department of More value denetion and Alomeristry, CORPORATE SOURCE: Aliver Pity of Fisher Land, Establish, EA, 11, 21, 1 Level and Decay with the first part of the first SOURCE: PUBLISHER: DVTCMENT THEF: AB Dendritic cells of the contract part to the armune temperature and the contract permanents of the contract of the contract permanents of the contract of th The conflict of the control of the compression of the conflict of the control of

with NH-.cap a.b-specient transcription of their menew. If tolerogenicity has been assets, with impairs i NH-.kappa.b-dependent transcription of continuity goes as well as NH-.kappa.B translocation to the nucleus. In this report, we assume trate that double-stranged clic be wyris nucleus or set of a limit of a linear click of a NH-.kappa.B (NH-.kappa.B (

transcription is a reporter while. More very employers of Ditto the observation is a reporter when the consequence is the consequence of the conse